86-43

United States Department of Agriculture

National Agricultural Library

Beltsville Maryland 20705

Quick Bibliography Series

CONSERVATION TILLAGE
(Including Minimum and No Tillage)
1984-85

294 Citations
March 1986

NAL-BIBL. QB. 86-43
Updates QB. 85-18

Searched by:
JAYNE T. MACLEAN
National Agricultural Library
Farming & Forestry Reference Branch
(301) 344-3704

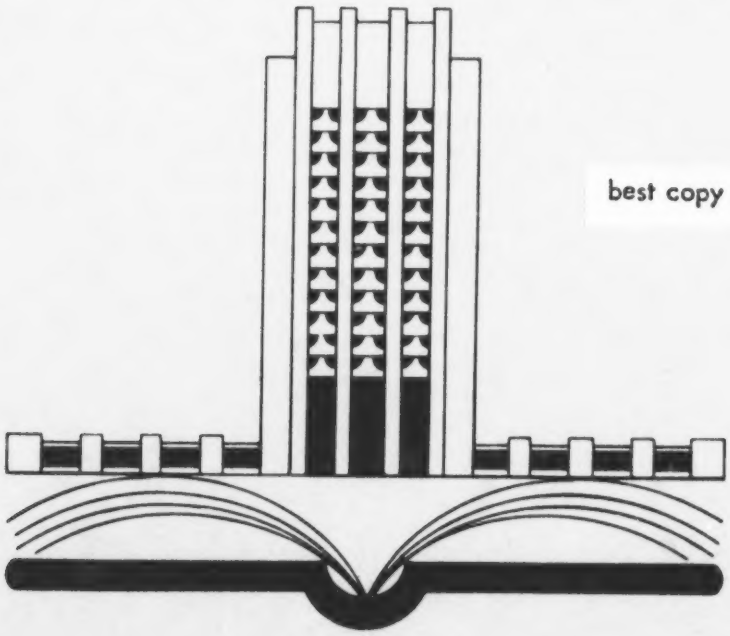
DATABASE SEARCHED: AGRICOLA

NEWARK PUBLIC LIBRARY

APR 16 1986

U. S. GOVT. PUBS.
DEPOSITORY 376

LANGUAGES: English only



best copy available

A 17.18/4:

Bibliographies in the Quick Bibliography Series of the National Agricultural Library, are intended primarily for current awareness, and as the title of the series implies, are not indepth exhaustive bibliographies on any given subject. However, the citations are a substantial resource for recent investigations on a given topic. They also serve the purpose of bringing the literature of agriculture to the interested user who, in many cases, could not access it by any other means. The bibliographies are derived from computerized on-line searches of the AGRICOLA data base. Timeliness of topic and evidence of extensive interest are the selection criteria.

The author/searcher determines the purpose, length, and search strategy of the Quick Bibliography. Information regarding these is available upon request from the author/searcher.

Copies of this bibliography may be made or used for distribution without prior approval. The inclusion or omission of a particular publication or citation may not be construed as endorsement or disapproval.

To request a copy of a bibliography in this series, send the title, series number and self-addressed gummed label to:

U.S. Department of Agriculture
National Agricultural Library
Public Services Division, Room 111
Beltsville, Maryland 20705

United States Department of Agriculture | National Agricultural Library | Public Services Division | Beltsville, Maryland 20705

DOCUMENT DELIVERY SERVICES AVAILABLE to Libraries and Other Information Centers and Commercial Organizations

The National Agricultural Library (NAL) accepts requests from libraries and other organizations in accordance with the national and international interlibrary loan code and guidelines. In its national role, NAL has a unique responsibility to attempt to supply copies of agricultural publications not found elsewhere. Filling requests for materials readily available from other sources would divert its resources and diminish its ability to serve as a national source for agricultural and agriculturally related publications. Therefore, NAL should be viewed as a library of last resort. Requestors should submit requests first to State/region/network sources prior to sending to NAL. Within the United States, possible sources are the land-grant university or other large research libraries within a state. Requesters in other countries should first try major university, national or provincial institutions. If the needed publications are not available from these sources, the requests may be submitted to NAL with a statement indicating their non-availability.

• Requests may be submitted on the American Library or the International Library interlibrary request form, by TWX (710-828-0506) or via the OCLC interlibrary loan subsystem. Our OCLC symbol is **AGL**, and we request that the symbol be entered twice. The complete name of the person authorizing the request is to appear on each form.

• The standard bibliographic source which lists the title as owned by NAL should be noted on each request. Requests for periodical articles should be verified. If verification is not possible, indicate the sources searched and give the sourceof the citation requested. Those requests which are verified or for which the citation source has been given receive a more thorough search. Unverified requests may be returned. If the citation is from an NAL database (CAIN/AGRICOLA, *Bibliography of Agriculture*, or the NAL catalog) and the call number is given, this call number should be included on the request.

LOAN SERVICE – Monographs published in the United States or abroad may be lent to U.S. libraries. Monographs published in the U.S. may be lent to libraries in other countries. The loan period is one month unless a shorter period is indicated on the due slip. The loan may be renewed for an additional month if there is no reserve request The renewal request should be received prior to the due date. The borrowing library is responsible from the time of dispatch for any loss or damage incurred.

The following materials are **not** available for loan: serials (except for USDA serials), rare reference and reserve books microforms, and proceedings of conferences or symposiums. Photocopy or microform of the non-circulating publications will be supplied automatically as described below if the requesting organization indicates that this is acceptable on the loan request form.

PHOTODUPLICATION SERVICE – A separate completed interlibrary form should be submitted for each article requested. Willingness to pay charges should be indicated on the form. Indicate compliance with copyright law or include a statement that the article is for research purposes only. Requests cannot be processed without these statements.

Rates are:

Electrostatic copy, microfilm and microfiche –
$ 5.00 for the first 10 pages or fraction copied from a single article or publication.
$ 3.00 for each additional 10 pages or fraction.
Duplication of NAL-owned microfilm – $ 10.00 per reel.
Duplication of NAL-owned microfiche– $ 5.00 for the first fiche and $ .50 for each additional fiche.
Billing – Fees include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Requesters are encouraged to establish deposit accounts with NTIS.
DO NOT SEND PREPAYMENT.

SEND REQUESTS TO – USDA, National Agricultural Library, Lending Branch, ILL, Beltsville, Maryland 20705. Questions concerning these services may be made by correspondence to Head, Lending Branch or by telephoning (301) 344-3755.

NOTE –
• Once requests have been accepted and processing has begun, requests cannot be cancelled. The appropriate charge for filling requests will be applied.

Form NAL-8A (10/84)

READEX FICHE

United States Department of Agriculture | National Agricultural Library | Public Services Division | Beltsville, Maryland 20705

DOCUMENT DELIVERY SERVICES TO INDIVIDUALS

The National Agricultural Library (NAL) has a unique responsibility to attempt to supply copies of agricultural publications not found elsewhere. Filling requests for materials readily available from other sources would divert its resources and diminish its ability to serve as a national source for agricultural and agriculturally related publications. Therefore, NAL should be viewed as a library of last resort and individuals should submit requests first to local or state sources prior to sending to NAL. Possible sources are the land-grant university or other large research libraries within a state. If the needed publications are not available from these sources, the requests may be submitted to NAL with a statement indicating their non-availability.

Individuals in other countries should submit requests through major university, national or provincial institutions.

LOAN SERVICE – Materials in the collection are loaned only to other *libraries*. Requests for loans should be made through local public, academic or special libraries.

The following materials are **not** available for loan: serials (except USDA serials); rare, reference, and reserve books; microforms; and proceedings of conferences or symposiums. Photocopy or microform of non-circulating publications may be purchased as described below.

PHOTODUPLICATION SERVICE – Use "USDA Request for Photocopying" (form LF-607) which may be requested in advance from our Library. A *separate form* should be submitted for each article or item requested. Requests should be as complete as possible with a minimum of abbreviation. The source of the citation should be given. If the citation is from an NAL database (CAIN/AGRICOLA, *Bibliography of Agriculture*, or the NAL catalog) and the call number is given, that call number should be listed in the proper block on the request form. Willingness to pay charges should be indicated on the form. Indicate compliance with copyright law or include a statement that the article is for research purposes only. Requests cannot be processed without these statements.

Rates are:

Electrostatic copy, microfilm and microfiche –
$ 5.00 for the first 10 pages or fraction copied from a single article or publication.
$ 3.00 for each additional 10 pages or fraction.

Duplication of NAL-owned microfilm – $ 10.00 per reel.

Duplication of NAL-owned microfiche– $ 5.00 for the first fiche and $ .50 for each additional fiche.

Billing – Fees include postage and handling, and are subject to change. Invoices are issued quarterly by the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Requesters are encouraged to establish deposit accounts with NTIS.
DO NOT SEND PREPAYMENT.

SEND REQUESTS TO – USDA, National Agricultural Library, Lending Branch, ILL, Beltsville, Maryland 20705. Questions concerning these services may be made by correspondence to Head, Lending Branch or by telephoning (301) 344-3755.

NOTE --
• Once requests have been accepted and processing has begun, requests cannot be cancelled. The appropriate charge for filling requests will be applied.

USDA Regional Document Delivery

Through agreements with the major land-grant libraries in select states, USDA Employees or libraries in those states may send their requests for document service directly to the land-grant university library for service. If the document cannot be supplied, it will be automatically forwarded to a larger regional land-grant library and a notice of this action sent back to the requestor. If the regional library cannot fill the request, it is forwarded to the National Agricutural Library (Utilization Section) for completion. This service exists in the following states, and Form AD-245 or the CALS printout form should be sent to these libraries. Phone numbers may be used for emergency services.

Alabama
Ralph Brown Draughon Library
Auburn University
Auburn, AL 36830 (205)826-4500

Arizona
Interlibrary Loans
University of Arizona Library
Tucson, AZ 85721 (602)626-1941

Arkansas
Interlibrary Loan
University of Arkansas
Fayetteville, AR 72701 (501)575-4101

California
Interlibrary Loans
University of California Library
Davis, CA 95616 (916)752-2251

Interlibrary Loans
Bio-Ag Science Libraries
University of California
Riverside, CA 92502 (714)787-3701

Colorado
Interlibrary Loans
Colorado State University Library
Ft. Collins, CO 80523 (303)491-5911

Florida
Hume Library
University of Florida
Gainesville, FL 32601 (904)392-1934

Georgia
Science Library
University of Georgia
Athens, GA 30601 (404)542-1315

Hawaii
Interlibrary Loans
Thomas Hale Hamilton Library
2550 The Mall
University of Hawaii
Honolulu, HI 96843 (808)948-8568

Idaho
University of Idaho Library
Moscow, ID 83843 (208)885-6559

Iowa
Interlibrary Loan
Iowa State University Library
Ames, IA 50010 (515)294-3642

Kansas
USDA Document Delivery
Kansas State University Library
Manhattan, KS 66506 (913)532-6516

Louisiana
Interlibrary Loans
Louisiana State University Library
Baton Rouge, LA 70803 (504)388-2138

Michigan
Document Delivery
Michigan State University Library
East Lansing, MI 48824 (517)355-7644

Minnesota
St. Paul Campus Library
University of Minnesota
St. Paul, MN 55108 (612)373-0968

Mississippi
Interlibrary Loans
Mitchell Memorial Library
Mississippi State University
Box 5408
Mississippi, MS 39762 (601)325-4225

Missouri
University of Missouri
1C31 Science
Ellis Library
Columbia, MO 65201 (314)882-2656

FEBRUARY 1984

Montana
Roland R. Renne Library
Montana State University
Bozeman, MT 59717 (406)994-3161

Interlibrary Loan (for Forest Service (ONLY)
Mansfield Library
University of Montana
Missoula, MT 53706 (406)262-9635

Nebraska
C. Y. Thompson Library
University of Nebraska, East Campus
Lincoln, NE 68503 (402)472-2802

Nevada
Life & Health Science Library
Fleischmann Agricultural Building
University of Nevada, Reno
Reno, NV 89557 (702)784-6616

New Mexico
Interlibrary Loans
New Mexico State University Library
P. O. Box 3475
Las Cruces, NM 88003 (505)646-4737

New York
Interlibrary Loan Services
Mann Library
Cornell University
Ithaca, NY 14850 (607)256-7754

North Carolina
Interlibrary Center
D. H. Hill Library
North Carolina State University
Raleigh, NC 27607 (919)737-2116

North Dakota
North Dakota State University Library
Fargo, ND 58102 (701)237-8885

Ohio
Interlibrary Loan
Ohio State University Library
1858 Neil Avenue Mall
Columbus, OH 43210 (614)422-6211

Oklahoma
Interlibrary Loans
Oklahoma State University Library
Stillwater, OK 74074 (405)624-6313

Oregon
Interlibrary Loans
Washington State University Library
Pullman, WA 99164 (509)335-2671

Pennsylvania
Interlibrary Loan Services
Mann Library
Cornell University
Ithaca, NY 14850 (607)256-7754

Puerto Rico
University of Puerto Rico
Agricultural Experiment Station Libr
P. O. Box H
Rio Piedras, PR 00928 (809)767-

South Carolina
Interlibrary Loans
Robert Meldrow Cooper Library
Clemson University
Clemson, SC 29631 (803)656-3025

South Dakota
H. M. Briggs Library
P. O. Box 2115
South Dakota State University
Brookings, SD 57000 (605)688-51

Tennessee
James D. Hoskins Library
University of Tennessee
Knoxville, TN 37916 (615)974-4

Texas
Interlibrary Loans
University Library
Texas A&M University
College Station, TX 77843 (713)84

Utah
Interlibrary Loans
Merrill Library
Utah State University
Logan, UT 84322 (801)750-2680

Washington
Science & Engineering Library
Washington State University
Pullman, WA 99164 (509)335-26

Wisconsin
Steenbock Memorial Library
University of Wisconsin
550 Babcock Drive
Madison, WI 53706 (608)262-96

AGRICOLA

File 10

Contains citations to documents published later than January 1979.

0001
The adoption of reduced tillage: the role of human capital and other variables.
Rahm, M.R. Huffman, W.E. Ames, Iowa : American Agricultural Economics Association. Extract: This paper presents a model of adoption behavior and explains differences econometrically in farmers' decisions to adopt reduced-tillage practices and in the efficiency of farmers' adoption decisions. The empirical results, obtained from microdata, show that the probability of adopting reduced tillage in corn enterprises differs widely across farms and depends on soil characteristics, cropping systems, and size of farming operation. The results also show that farmers' schooling enhances the efficiency of the adoption decision. American journal of agricultural economics. Includes statistical data. Nov 1984. v. 66 (4). p. 405-413. Includes 26 references. (NAL Call No.: DNAL 280.8 J822).

0002
Advances in live mulch crop production in the tropics.
WSWPA. Akobundu, I.O. Reno : The Society. Proceedings - Western Society of Weed Science. 1984. v. 37. p. 51-57. Includes 8 references. (NAL Call No.: DNAL 79.9 W52).

0003
Aerobic and anaerobic microbial populations in no-till and plowed soils.
Linn, D.M. Doran, J.W. Madison, Wis. : The Society. Journal - Soil Science Society of America. July/Aug 1984. v. 48 (4). p. 794-799. Includes 14 references. (NAL Call No.: 56.9 S03).

0004
After 15 years of no-tillage corn.
Blevins, R.L. Lexington, Ky. : The Department. Soil science news & views - Cooperative Extension Service and University of Kentucky, College of Agriculture, Department of Agronomy. June 1985. v. 6 (6). 2 p. (NAL Call No.: DNAL S591.55.K4S64).

0005
Alternatives in orchard ground cover management (in herbicide use, tillage methods and non-tillage methods).
Stiles, W.C. North Amherst, Mass. : The Association. New England fruit meetings ... Proceedings of the ... annual meeting - Massachusetts Fruit Growers' Association. 1984. 1984. (90th). p. 62-69. Includes references. (NAL Call No.: 81 M384).

0006
Analysis of variables affecting straw penetration for flat-fan nozzles (Herbicide application in no-till cropping systems).
Gerling, J.F. Solie, J.B. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-1003). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0007
Annotated bibliography of selected extension publications, conservation tillage /by J.W. Bauder. -.
Bauder, J. W. Washington, D.C.? : Conservation Tillage Information Center ; Fort Wayne, Ind. (2010 Inwood Dr., Fort Wayne 46815) : Available from Conservation Tillage Information Center, 1984. Cover title: Cooperative extension publications on conservation tillage, an annotated bibliography.~ "A special project of the National Association of Conservation Districts."~ "This publication was produced as a cooperative effort of the Montana Cooperative Extension Service, the Minnesota Agricultural Extension Service, the Extension Service-USDA and the Conservation Tilla~ "July 1984.". 84 p. ; 28 cm. (NAL Call No.: DNAL Z5074.S65B37).

0008
Appropriate mechanization for no-tillage in the Tropics.
Garman, C.F. Ngambeki, D.S.; Navasero, N.C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-5002). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0009
An argument for wide beds with conservation tillage.
Morrison, J.E. Jr. Gerik, T.J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1543). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0010
Assessing the physical condition of a Piedmont soil under long term conventional and no-tillage (Georgia).
Tollner, E.W. Hargrove, W.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper

presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1514). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0011
Atrazine dissipation in conventional-till and no-till sorghum (Pesticide degradation, soil cultivation, Nebraska).
Ghadiri, H. Shea, P.J.; Wicks, G.A.; Haderlie, L.C. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1984. v. 13 (4). p. 549-552. ill. Includes 28 references. (NAL Call No.: QH540.J6).

0012
"Best bets" in no-tillage planters (Accurate seed placement, ease of adjustments and service).
Lessiter, F. Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. June 1984. v. 13 (6). p. 10. ill. (NAL Call No.: S604.N6).

0013
Biochemical and microbiological aspects of conservation tillage: important considerations for Appalachian agriculture--a review.
CSOSA2. Foster, J.G. Wright, S.F.; Morton, J.B.; Bennett, O.L. New York, N.Y. : Marcel Dekker. Communications in soil science and plant analysis. Dec 1984. v. 15 (12). p. 1493-1512. Includes 99 references. (NAL Call No.: DNAL S590.C63).

0014
Bladex: a solid option for no-till "burndown".
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Dec 1984. v. 12 (12). p. 6. ill. (NAL Call No.: DNAL S604.N6).

0015
Breaking ground in minimum-till weed control.
PEAFA. Maeder, M. Raleigh, N.C. : Specialized Agricultural Publications. The peanut farmer. May 1985. v. 21 (5). p. 20. (NAL Call No.: DNAL SB351.A1P3).

0016
C factors for no-till and reduced-till corn.
McGregor, K.C. Mutchler, C.K. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2024). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0017
Changes in natural 15N abundance of soils associated with tillage practices.
CJSSAR. Selles, F. Karamanos, R.E.; Bowren, K.E. Ottawa : Agricultural Institute of Canada. Canadian journal of soil science = Revue canadienne de la science du sol. Aug 1984. v. 64 (3). p. 345-354. ill. Includes references. (NAL Call No.: DNAL 56.8 C162).

0018
Chemical fallow in the central Great Plains (Herbicides as alternative to mechanical tillage for weed control in winter wheat).
Anderson, R.L. Smika, D.E. Fort Collins, Colo. : The Service. Bulletin - Cooperative Extension Service, Colorado State University. Jan 1984. Jan 1984. (588S). 12 p. Includes references. (NAL Call No.: 275.29 C71E).

0019
Chemical weed control in sorghum: 1985.
Wrage, L.J. Arnold, W.E.; Johnson, P.O. Brookings, S.D. : The Service. FS - South Dakota State University, Cooperative Extension Service. Jan 1985. (525D). 11 p. (NAL Call No.: DNAL 275.29 SO85FS).

0020
A chisel-based tillage system for irrigated row crops.
Michel, J.A. Jr. Fornstrom, K.J.; Borrelli, J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1033). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0021
Chisel plow good only if it is used right.
CRSOA. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Jan 1985. v. 37 (4). p. 25-26. ill. (NAL Call No.: DNAL 6 W55).

0022
Chisel plow induced changes in soil conditions.
Erbach, D.C. Cruse, R.M. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1508). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0023
Comparison of no-till and conventional cabbage production.
Bellinder, R.R. Hines, T.E.; Wilson, H.P. Virginia Beach, Va. : Virginia Polytechnic Inst. and State University Cooperative Ext. Service. The Vegetable growers news. May/June 1984. v. 38 (6). p. 4. (NAL Call No.: 275.28 V52).

0024
A comparison of tillage for reducing soil erosion and water pollutionLee A. Christensen, Patricia E. Norris. -.
Christensen, Lee A. Washington, D.C. : U.S. Dept. of Agriculture, Economic Research Service, 1983. iv, 27 p. : ill., map -. Bibliography: p. 22-27. (NAL Call No.: DNAL Fiche S-81 no.499).

0025
Concentrations of P and K in the ridge in selected ridge-till planting systems.
MXMRA. Rehm, G. Bellin, F.; Morris, J.; Hanson, D. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1985. (2,rev.). p. 178-182. (NAL Call No.: DNAL S1.M52).

0026
Concept of conservation tillage and its scope in Indian agriculture.
Ray, B. Bombay : Colour Publications. Pesticides. Dec 1983. v. 17 (12). p. 15-17. (NAL Call No.: SB951.P43).

0027
Conservation till: short-run cost for long-run savings.
CRSOA. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Nov 1984. v. 37 (2). p. 26-27. (NAL Call No.: DNAL 6 W55).

0028
Conservation tillage: A comparison of methods.
AGENA. Al-Darby, A.M. Lowery, B. St. Joseph, Mich. : American Society of Agricultural Engineers. Agricultural engineering. Oct 1984. v. 65 (10). p. 23-24. (NAL Call No.: DNAL 58.8 AG83).

0029
Conservation tillage aids wildlife.
Johnson, R.J. Holm, K.E.; Koehler, A.E. Lincoln, Neb. : The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. 1984. v. 30 (3,special edition). p. 16. ill. (NAL Call No.: 100 N27N).

0030
Conservation tillage: an available solution.
Crosson, D.F.J. Gainesville, Fla. : The Program, 1983? . Agriculture, change and human values : proceedings, multidisciplinary conference Oct 18-21, 1982 / edited by R. Haynes, R. Lanier ; sponsored by University of Florida, Humanities and Agriculture Pro. v. 1 p. 119-126. (NAL Call No.: DNAL S401.A45).

0031
Conservation-tillage and residue-management systems for interior Alaska.
AGBOB. Siddoway, F.H. Lewis, C.E.; Cullum, R.F. Fairbanks : The Station. Agroborealis - Alaska Agricultural Experiment Station, Fairbanks. Includes lists of species. July 1984. v. 16 (2). p. 35-40. ill. Includes 5 references. (NAL Call No.: DNAL S33.E2).

0032
Conservation tillage effective, inexpensive erosion control (Soils).
Dickey, E.C. Shelton, D.P.; Peterson, T.R. Lincoln, Neb. : The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. 1984. v. 30 (3,special edition). p. 18-20. ill. (NAL Call No.: 100 N27N).

0033
Conservation tillage: fertilizer programs should match system.
Hergert, G. Wiese, R. Lincoln, Neb. : The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. 1984. v. 30 (3,special edition). p. 21-22. ill. (NAL Call No.: 100 N27N).

0034
Conservation tillage for maize production in the U.S. southeastern coastal plain.
Campbell, R.B. Karlen, D.L.; Sojka, R.E. Amsterdam : Elsevier. Soil & tillage research. Dec 1984. v. 4 (6). p. 511-529. ill. Includes references. (NAL Call No.: DNAL S590.S48).

0035
Conservation tillage for soybean in the U.S. southeastern coastal plain.
Campbell, R.B. Sojka, R.E.; Karlen, D.L. Amsterdam : Elsevier. Soil & tillage research. Dec 1984. v. 4 (6). p. 531-541. ill. Includes references. (NAL Call No.: DNAL S590.S48).

0036
Conservation tillage in Utah.
UTSCB. Gutknecht, K.W. Logan : The Station. Utah Science - Utah Agricultural Experiment Station. Spring 1985. v. 46 (1). p. 18-23. ill. (NAL Call No.: DNAL 100 UT1F).

0037
Conservation tillage (including minimum and no tillage), May 1982-April 1984.
MacLean, J.T. Beltsville, Md. : The Library. Quick bibliography series - National Agricultural Library. June 1984. Updates 82-19 ~Bibliography. June 1984. (84-41). 36 p. (NAL Call No.: aZ5071.N3).

0038
Conservation tillage (including minimum and no tillage) 1983-1984.
Maclean, J.T. Beltsville, Md. : The Library. Quick bibliography series - National Agricultural Library. Updates QB 84-41.~ Bibliography. Feb 1985. (85-18). 26 p. (NAL Call No.: DNAL aZ5071.N3).

0039
Conservation Tillage Information Center (United States).
Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Feb 1984. v. 36 (5). p. 5-6. maps. (NAL Call No.: 6 W55).

0040
Conservation tillage is on the rise in eastern New Mexico.
Savage, S. Joubert, B. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. July 1984. v. 5 (4). p. 8. (NAL Call No.: aS622.S6).

0041
Conservation tillage: Marrying for money.
JSWCA3. Cook, K. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Oct/Nov 1984. v. 39 (6). p. 368-370. (NAL Call No.: DNAL 56.8 J822).

0042
Conservation tillage practices for winter wheat production in the Appalachian Piedmont Cecil, Appling and Pacolet soils .
JSWCA3. Hargrove, W.L. Hardcastle, W.S. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Sept/Oct 1984. v. 39 (5). p. 324-326. Includes 11 references. (NAL Call No.: DNAL 56.8 J822).

0043
Conservation tillage: seeding equipment examined.
FRHQA. Smith, J.A. Klocke, N.L. Lincoln, Neb. : The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. 1984/1985. v. 31 (2). p. 12-15. ill. (NAL Call No.: DNAL 100 N27N).

0044
Conservation tillage studies on a Clermont site loam soil (Indiana).
Kladivko, E.J. Griffith, D.R.; Mannering, J.V. Indianapolis, Ind. : The Academy. Proceedings of the Indiana Academy of Science. 1982 (pub.1983). v. 92. p. 441-445. Includes references. (NAL Call No.: 500 IN2).

0045
Conservation tillage study.
MXMRA. Randall, G.W. Walters, D.T.; Swan, J.B. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1985. (2,rev.). p. 107-113. (NAL Call No.: DNAL S1.M52).

0046
Conservation tillage systems and their adoption in the United States.
Allmaras, R.R. Dowdy, R.H. Amsterdam : Elsevier Science Publishers B.V. Soil & tillage research. Literature review. Apr 1985. v. 5 (2). p. 197-222. maps. Includes references. (NAL Call No.: DNAL S590.S48).

0047
Conservation tillage: things to consider.
XAAIA. King, A.D. Washington, D.C. : The Department. Agriculture information bulletin - U.S. Dept. of Agriculture. Feb 1985. (461). 23 p. ill. (NAL Call No.: DNAL 1 AG84AB).

0048
Conservation tillage under reduced pressure sprinkler irrigation.
DeBoer, D.W. Beck, D.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1526). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0049
Continuous alfalfa: invertebrate pests during establishment.
JEENAI. Byers, R.A. Bierlein, D.L. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1984. v. 77 (6). p. 1500-1503. Includes references. (NAL Call No.: DNAL 421 J822).

0050
Continuous tillage rotation combinations effects on corn, soybean, and oat yields.
AGJOAT. Dick, W.A. Van Doren, D.M. Jr. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1985. v. 77 (3). p. 459-465. Includes 14 references. (NAL Call No.: DNAL 4 AM34P).

0051
Controlling weeds--conservation tillage is no barrier.
Kapusta, G. Stovgaard, R.V. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Apr/May 1984. v. 36 (7). p. 16-17. ill. (NAL Call No.: 6 W55).

0052
Conventional and no-till establishment of ladino clover as influenced by time of seeding and insect and grass suppression.
AGJOAT. Rogers, D.D. Chamblee, D.S.; Mueller, J.P.; Campbell, W.V. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1985. v. 77 (4). p. 531-538. Includes 15 references. (NAL Call No.: DNAL 4 AM34P).

0053
Conventional planter attachments for till planting.
Parsons, S.D. Griffith, D.R.; Mannering, J.V. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of

Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1013). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0054
Corn grown in a Ste. Rosalie clay under zero and traditional tillage.
CAEOA. Taylor, F. Raghavan, G.S.V.; Negi, S.C.; McKyes, E.; Vigier, B.; Watson, A.K. Ottawa : Canadian Society of Agricultural Engineering. Canadian agricultural engineering. Winter 1984. v. 26 (2). p. 91-95. ill. Includes references. (NAL Call No.: DNAL 58.8 C164).

0055
Corn hybrids response to four methods of tillage.
AGJOAT. Hallauer, A.R. Colvin, T.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1985. v. 77 (4). p. 547-550. Includes references. (NAL Call No.: DNAL 4 AM34P).

0056
Cornell University's energy integrated farm system (Conservation tillage, biomass production).
Walker, L.P. Pellerin, R.A.; Heisler, M.G.; Ludington, D.C.; Muck, R.E. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-3038). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0057
Cost-sharing to promote use of conservation tillage.
JSWCA3. Tice, T.F. Epplin, F.M. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Oct/Nov 1984. v. 39 (6). p. 395-397. Includes 18 references. (NAL Call No.: DNAL 56.8 J822).

0058
Costly energy, lower chemical costs will favor less tillage (Savings in field preparation costs for no-till corn and soybeans, costs and returns, United States).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. June 1984. v. 13 (6). p. 4. ill. (NAL Call No.: S604.N6).

0059
Coulter sharpness is more important than type coulter (No-till planters, maize stalks).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Apr 1984. Apr 1984. p. 9. (NAL Call No.: S604.N6).

0060
Cover crops for no-tillage production of cabbage and broccoli.
Morse, R. Seward, D. Virginia Beach, Va. : Virginia Polytechnic Inst. and State University Cooperative Ext. Service. The Vegetable growers news. Nov/Dec 1984. v. 39 (3). p. 1, 4. (NAL Call No.: DNAL 275.28 V52).

0061
Development and field evaluation of coulter attachment for direct drilling.
Shukla, L.N. Tandon, S.K.; Verma, S.R. Tokyo : Farm Machinery Industrial Research Corp. AMA, agricultural mechanization in Asia, Africa and Latin America. Summer 1984. v. 15 (3). p. 19-21, 24. ill. Includes 24 references. (NAL Call No.: DNAL S760.A75A35).

0062
Direct drilling and strip tillage for sugar beet (Use of equipment).
Nuttall, M. London : British Sugar Corporation. British sugar beet review. Winter 1982. v. 50 (4). p. 53, 56-57. ill. (NAL Call No.: 66.8 B77).

0063
Early preplant herbicide applications for no-till soybean (Glycine max) weed control.
Stougaard, R.N. Kapusta, G.; Roskamp, G. Champaign, Ill. : Weed Science Society of America. Weed science. May 1984. v. 32 (3). p. 293-298. Includes references. (NAL Call No.: 79.8 W41).

0064
Economic impact of conservation tillage in Michigan.
Muhtar, H.A. Black, J.R.; Burkhardt, T.H.; Christenson, D. East Lansing, Mich., The Department. Extract: Conservation tillage has a distinct economic advantage over conventional tillage systems. Estimated costs per hectare were lower for four cropping sequences under three textures of well drained soil in the Southeast Saginaw Bay Watershed in Michigan. Agricultural economics staff paper - Michigan State University, Dept. of Agricultural Economics. June 27-30, 1982. Carries second series title: American Society of Agricultural Engineers Paper no. 82-1033. June 27-30, 1982. (82-57). 23 p. Includes 16 references. (NAL Call No.: 918134(AGE)).

0065
Economic impact of conservation tillage in Michigan (Erosion and runoff control).
Muhtar, H.A. Black, J.R.; Burkhardt, T.H.; Christenson, D. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at

the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1033). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0066
Economic impacts of different tillage systems on net farm income and on soil loss.
Salem, M.A. Badger, D.D. Stillwater : The Station. Extract: This study analyzes the impacts of reduced tillage technology as a conservation practice to reduce soil erosion as compared with conventional tillage systems in eastern Oklahoma. Reduced tillage technology in this study refers to both minimum tillage and non-tillage. Minimum tillage refers to production systems that do not use the moldboard plow, that leave enough crop residue on the soil surface to reduce soil erosion, and which use herbicides for weed control. No-tillage practices refer to tillage systems that accomplish weed control with chemicals and where the soil is not tilled. Oklahoma current farm economics - Oklahoma, Agricultural Experiment Station. Dec 1983. v. 56 (4). p. 12-20. Includes 10 references. (NAL Call No.: 100 OK4 (5)).

0067
The economic potential of leguminous tree crops in zero-tillage cropping in Nigeria: a linear programming model.
Verinumbe, I. Knipscheer, H.C.; Enabor, E.E. The Hague : Martinus Nijhoff/W. Junk. Agroforestry systems. 1984. v.2 (2). p. 129-138. Includes 10 references. (NAL Call No.: SD387.M8A3).

0068
Economics of minimum tillage practices for summer fallow preparation in southern Alberta (Costs, Canada).
Zentner, R.P. Lindwall, C.W. Ottawa : Canada Dept. of Agriculture. Canada agriculture. 1983. v. 29 (1). p. 22-25. ill. (NAL Call No.: 7 R31).

0069
Economics of new ways.
College Station, Tex. : Texas Water Resources Institute and Texas Agricultural Experiment Station. Water currents. Winter 1984. v. 3 (4). p. 4. ill. (NAL Call No.: DNAL S494.5.W3W34).

0070
Economics of no-till crop production.
Swenson, A.L. Johnson, R.G. Fargo, N.D. : The Station. Extract: When proper management has been utilized, spring seeded small grain yields under no-till are similar to conventional tillage yields. Costs of no-till on continuous cropping are slightly higher than production with conventional tillage practices when reductions are made in the amount of machinery owned. The high herbicide expenditures of complete chemical fallow presently make it economically uncompetitive with mechanical fallow. Substantial cost and labor distribution advantages of raising winter wheat in untilled seedbeds make it an attractive alternative to conventional spring seedings. Seeding directly into stubble provides a more favorable environment for overwinter survival, enabling winter wheat production in areas previously considered too risky. North Dakota farm research - North Dakota, Agricultural Experiment Station. Jan/Feb 1982. v. 39 (4). p. 14-17. Includes 8 references. (NAL Call No.: 100 N813B).

0071
Economics of no-till wheat production.
Bauder, J.W. Bozeman, Mont. : The Service. Montguide MT : Agriculture - Montana State University, Cooperative Extension Service. Feb 1983. (8306). 3 p. Includes 4 references. (NAL Call No.: DNAL S544.3.M9M65).

0072
Economics of selected on-farm adjustments for prairie grain farmers in response to rising future energy prices.
CFECA. Narayanan, A.V.S. Colwell, H.T.M.; Beaulieu, Y.; Zentner, R.D. Ottawa, Can. : Communications Branch, Agriculture Canada. Extract: This paper evaluates the economic feasibility of selected on-farm energy conservation adjustments in response to the energy price regime under the NEP (National Energy Programs) for prairie grain farms during the 1981-86 planning period. For this purpose, we chose representative farms in Saskatchewan, which has the largest area and number of farms under grain and oilseeds. A study of the 1980 Farm Enumerative Survey shows that the energy component of operating expenses for grain and oilseed farms in Saskatchewan in the form of fuel oil, fertilizer, chemicals, electricity and heating oil, accounts for 39% of the total. Canadian farm economics. Includes statistical data. Autumn 1983. v. 18 (2). p. 3-11. Includes 3 references. (NAL Call No.: DNAL AGE HD1401.C2).

0073
Effect of conservation tillage on runoff water quality: total, dissolved and algal-available phosphorus losses.
Mueller, D.H. Andraski, B.J.; Daniel, T.C.; Lowery, B. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-2535). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0074
The effect of conservation tillage on the quality of the runoff water.
Mueller, D.H. Daniel, T.C.; Lowery, B.; Andraski, B. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2022). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0075
Effect of minimum tillage methods on the succeeding potato crop in the San Luis Valley.
Walker, J.G. Ft. Collins, Colo. : The Station. Progress report - Colorado Experiment Station. Oct 1984. (18). 3 p. (NAL Call No.: DNAL 100 C71C).

0076
The effect of N and P (nitrogen, phosphorus) fertilization on winter survival of winter wheat under zero-tilled and conventionally tilled management.
Grant, C.A. Stobbe, E.H.; Racz, G.J. Ottawa : Agricultural Institute of Canada. Canadian journal of soil science = Revue canadienne de la science du sol. May 1984. v. 64 (2). p. 293-296. Includes references. (NAL Call No.: 56.8 C162).

0077
Effect of spray/planting intervals and various grass sods on no-till establishment of alfalfa.
AGJOAT. Eltun, R. Wakefield, R.C.; Sullivan, W.M. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1985. v. 77 (1). p. 5-8. Includes 17 references. (NAL Call No.: DNAL 4 AM34P).

0078
Effect of water-filled pore space on carbon dioxide and nitrous oxide production in tilled and nontilled soils.
SSSJD4. Linn, D.M. Doran, J.W. Madison, Wis. : The Society. Journal - Soil Science Society of America. Nov/Dec 1984. v. 48 (6). p. 1267-1272. Includes 28 references. (NAL Call No.: DNAL 56.9 S03).

0079
The effect upon grain yield and soil physical characteristics of continuous direct drilled maize on a Doveton soil (Soil compaction, tillage, South Africa).
Mallett, J.B. Johnston, M.A. Pretoria : South African Society of Crop Production. Gewasproduksie = Crop production. 1983. v. 12. p. 38-40. ill. Includes references. (NAL Call No.: SB13.G4).

0080
Effects of conservation tillage on corn growth.
Al-Darby, A.M. Lowery, B. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-1033). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0081
Effects of no tillage and various tillage methods on yields of maize, field beans and pepper grown on a mollisol in southern Puerto Rico.
JAUPA. Lugo-Mercado, H.M. Badillo-Feliciano, J.; Ortiz-Alvarado, F.H. Mayaguez : University of Puerto Rico, Agricultural Experiment Station. The Journal of agriculture of the University of Puerto Rico. Oct 1984. v. 68 (4). p. 349-354. Includes 15 references. (NAL Call No.: DNAL 8 P832J).

0082
Effects of zero tillage and stubble retention on some properties of a cracking clay.
Loch, R.J. Coughlan, K.J. East Melbourne : Commonwealth Scientific and Industrial Research Organization. Australian journal of soil research. 1984. v. 22 (1). p. 91-98. Includes references. (NAL Call No.: 56.8 AU7).

0083
Efficient water use: conservation of soil moisture with no-tillage.
Morse, R.D. Virginia Beach, Va. : Virginia Polytechnic Inst. and State University Cooperative Ext. Service. The Vegetable growers news. July/Aug 1984. v. 39 (1). p. 2, 4. (NAL Call No.: DNAL 275.28 V52).

0084
Environmental significance of minimum-tillage.
Thomas, G.W. Totowa, N.J. : Rowman & Allanheld, 1985. Agricultural chemicals of the future : invited papers presented at a symposium held May 16-19, 1983, at the Beltsville Agricultural Research Center (BARC), Beltsville, Maryland / James L. Hilton, edit. p. 411-423. Includes references. (NAL Call No.: DNAL S583.2.A374).

0085
EPA (Environmental Protection Agency) grant used to test soil-savingpractices (Comparison of conventional versus ridge tillage).
Kissler, R.K. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. Jan 1984. v. 4 (10). p. 4-5. (NAL Call No.: aS622.S6).

0086
Equipment rental spells conservation tillage for Indiana County.
Comis, D.L. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. Mar 1984. v. 4 (12). p. 7. ill. (NAL Call No.: aS622.S6).

0087
Equipment wheel spacing for ridge-planted crops (Till-plant system, controlled-traffic production technique).
Parsons, S.D. Griffith, D.R.; Doster, D.H. St. Joseph, Mich. : American Society of Agricultural Engineers. Agricultural engineering. Aug 1984. v. 65 (8). p. 10-14. ill. (NAL Call No.: 58.8 AG83).

0088
Erosion's real costs--no-till no answer, at least not in the long run. 1.
Logsdon, G. Emmaus, Pa. : Regenerative Agriculture Association. The New farm. Sept/Oct 1984. v. 6 (6). p. 38-39, 42. (NAL Call No.: S1.N32).

0089
Estimating residues by hand-held radiometry (Conservation tillage).
Morrison, J.E. Jr. Gerik, T.J.; Dyke, P.T. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2020). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0090
Evaluation of a sprayer equipped combine for application of herbicides during harvest (Conservation tillage).
Downs, H.W. Gerling, J.F.; Fain, D. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1504). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0091
Evaluation of disc coulters as affected by straw and cone index under zero till practices.
Vaishnav, A.S. Kushwaha, R.L.; Zoerb, G.C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1517). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0092
Evaluation of modified Powr-Till seeder for soil incorporation of carbofuran to provide insect control and minimize bird mortality in pine seed orchards /N.A. Overgaard ... et al. . -.
Overgaard, N. A. Atlanta, Ga. : U.S. Dept. of Agriculture, Forest Service, Southern Region, 1983. "April 1983.". iii, 35 p. : ill., map ; 28 cm. -. Bibliography: p. 14. (NAL Call No.: DNAL aSD11.U5962 no.3).

0093
Evaluation of no-tillage and conventional tillage systems single row drill .
Sharma, D.N. Jain, M.L.; Sharma, S. Tokyo : Farm Machinery Industrial Research Corp. AMA, agricultural mechanization in Asia, Africa and Latin America. Summer 1984. v. 15 (3). p. 14-18. ill. Includes 7 references. (NAL Call No.: DNAL S760.A75A35).

0094
An evaluation of no-tillage culture for burley tobacco.
Link, L.A. Blacksburg, Va. : The University. Bulletin - Virginia Agricultural Experiment Station, Virginia Institute and State University. 1984? . (84-6). 16 p. Includes 6 references. (NAL Call No.: DNAL S541.5.V8B8).

0095
An evaluation of three early maturing cotton cultivars for production potential and insect damage in reduced- and conventional-tillage systems.
Roach, S.H. Culp, T.W. Clemson, S.C. : South Carolina Entomological Society. Journal of agricultural entomology. July 1984. v. 1 (3). p. 249-255. Includes references. (NAL Call No.: DNAL SB599.J69).

0096
Factors affecting adoption of conventional and conservation tillgae practices in Ohio (Soil erosion).
Napier, T.L. Thraen, C.S.; Gore, A.; Goe, W.R. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. May/June 1984. v. 39 (3). p. 205-209. Includes references. (NAL Call No.: 56.8 J822).

0097
Fall no-till seeding of alfalfa into tall fescue as influenced by time of seeding and grass and insect suppression.
AGJOAT. Rogers, D.D. Chamblee, D.S.; Mueller, J.P.; Campbell, W.V. Madison, Wis. : American Society of Agronomy.

Agronomy journal. Jan/Feb 1985. v. 77 (1). p. 150-157. Includes 15 references. (NAL Call No.: DNAL 4 AM34P).

0098
Fall, spring spraying works with sod (Atrazine, paraquat, no-till maize).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Oct 1984. v. 13 (10). p. 8. ill. (NAL Call No.: S604.N6).

0099
Fallow tillage influence on spring populations of soil nitrifiers, Denitrifiers, and available nitrogen (Conservation tillage, winter wheat, Nebraska).
Broder, M.W. Doran, J.W.; Peterson, G.A.; Fenster, C.R. Madison, Wis. : The Society. Journal - Soil Science Society of America. Sept/Oct 1984. v. 48 (5). p. 1060-1067. ill. Includes 29 references. (NAL Call No.: 56.9 S03).

0100
Farmers' experience with no-till corn production in Ontario county, New York.
Wentzel, R. Robinson, K.L. Ithaca, N.Y. : The Station. A.E. Res. - New York State College of Agriculture and Life Sciences, Department of Agricultural Economics, Cornell University, Agricultural Experiment Station. Jan 1983. Jan 1983. (83-8). 20 p. Includes 22 references. (NAL Call No.: 281.9 C81A).

0101
Favorite no-till weed "recipes".
Lessiter, Frank. Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Dec 1984. v. 12 (12). p. 5. ill. (NAL Call No.: DNAL S604.N6).

0102
Fertilization of no-till forages for maximum yield on hill lands.
Decker, A.M. Beltsville, Md. : The Region. Agricultural research results ARR-NE - U.S. Dept. of Agriculture, Science and Education Administration, Agricultural Research, Northeastern Region. May 1983. Presented at the "Proceedings/Summaries of Fourth Eastern Forage Improvement Conference," July 7-9, 1981, Beltsville, Maryland. May 1983. (15). p. 10. (NAL Call No.: aS21.A75U67).

0103
Fertilizer effects under simulated no-till conditions (Spring wheat, Triticum aestivum).
Babowicz, R.J. Hyde, G.M.; Simpson, J.B. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1025). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0104
Fertilizer placement: improved efficiency for reduced tillage crops.
Murphy, L. Baltimore, Md. : Fertilizer Industry Round Table. Proceedings of the ... annual meeting - Fertilizer Industry Round Table. 1983. 1983. p. 82-90. Includes references. (NAL Call No.: 57.09 F41).

0105
Fertilizer placement in conservation tillage.
Eckert, D.J. Saskatoon, Sask. : PCS Sales. Agri-views. Fall 1984. v. 4 (3). p. 3-4. ill. (NAL Call No.: DNAL S590.A35).

0106
Fertilizer response in 1984: no-till annual cropping of small grains.
OASPA. Ramig, R.E. Ekin, L.G. Corvallis, Or. : The Station. Special report - Oregon State University, Agricultural Experiment Station. June 1985. (738). p. 27-32. (NAL Call No.: DNAL 100 OR3M).

0107
Fertilizer response of reduced tillage wheat (Yields, Oregon's Columbia Basin).
Gardner, H. Nibler, F. Atlanta, Ga. : Potash & Phosphate Institute. Better crops with plant food. Summer 1984. v. 68. p. 26-27. ill. (NAL Call No.: 6 B46).

0108
Field evaluation of the "chisel-planter" minimum tillage system.
Peterson, C.L. Dowding, E.A.; Hawley, K.N.; Harder,.R.W. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1017). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0109
Field verification of runoff curve numbers for fallow rotations (Conservation tillage, erosion control, Kansas).
Steichen, J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2096). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0110
Fighting soil erosion (No-till plantings, field crops, Tennessee).
Mays, G.C. Washington, D.C. : The Administration. Extension review - United States Department of Agriculture, Science and Education Administration. Fall 1983. v. 54 (4). p. 38-39. ill. (NAL Call No.: 1 EX892EX).

0111
Fit herbicide needs to your own program (Weed control in no-till soybeans).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 10. ill. (NAL Call No.: S604.N6).

0112
Fodder production under zero tillage /by S. Salahuddin Ahmad, Muhammad Iqbal, Shahid Rafique. -.
Ahmad, S. Salahuddin. Iqbal, Muhammad Zafar,_1935-; Rafique, Shahid. Quetta : Arid Zone Research Institute, Pakistan Agricultural Research Council, 1982. "December 1982.". iii, 25 leaves : ill. ; 28 cm. Bibliography: leaves 24-25. (NAL Call No.: DNAL SB193.A35).

0113
Forget foxtail--ridge-planting can help keep this weed out of beans for good.
Thompson, D. Thompson, S. Emmaus, Pa. : Regenerative Agriculture Association. The New farm. July/Aug 1984. v. 6 (5). p. 18-20. ill. (NAL Call No.: S1.N32).

0114
Full-season no-till beans will work (Soybeans, Ohio, Illinois).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 9. ill. (NAL Call No.: S604.N6).

0115
Fundamentals of no-till farming / (Robert W. Rice, author-editor).
Rice, Robert W. Athens, Ga. American Association for Vocational Instructional Materials 1983. Includes index ~"AGDEX 519.". 148 p. : col. ill., map ; 28 cm. Bibliography: p. 143-144. (NAL Call No.: S604.R5 1983).

0116
Future needs in weed science.
WEESA6. McWhorter, C.G. Champaign, Ill. : Weed Science Society of America. Weed science. Nov 1984. v. 32 (6). p. 850-855. Includes 42 references. (NAL Call No.: DNAL 79.8 W41).

0117
Grain drill opener design for fertilizer placement (Conservation tillage systems).
Wilkins, D.E. Rasmussen, P.E.; Klepper, B.L.; Haasch, D.A. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (C16) 429-0300 for information and prices. 1982. (fiche no. 82-1516). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0118
Growing corn with the till-plant system.
Baldridge, D.E. Ranney, J. Bozeman, Mont. : The Service. Montguide MT : Agriculture - Montana State University, Cooperative Extension Service. Mar 1983. (831S). 2 p. ill. (NAL Call No.: DNAL S544.3.M9M65).

0119
Herbage yields and water-use efficiency on a loamy site as affected by tillage, mulch, and seeding treatments (Bothriochloa ischaemum, buffalograss, Buchloe dactyloides, silver bluestem, Bothriochloa saccharoides, Oklahoma).
Berg, W.A. Sims, P.L. Denver, Colo. : Society for Range Management. Journal of range management. Mar 1984. v. 37 (2). p. 180-184. Includes references. (NAL Call No.: 60.18 J82).

0120
Herbicide performance in a chemical fallow program.
Anderson, R.L. Ft. Collins, Colo. : The Station. Progress report - Colorado Experiment Station. Nov 1984. (20). 2 p. (NAL Call No.: DNAL 100 C71C).

0121
Herbicide programs and tillage systems for cabbage.
PNWSB. Bellinder, R.R. Hines, T.E.; Wilson, H.P. Beltsville, Md. : The Society. Proceedings of the ... annual meeting - Northeastern Weed Science Society. Jan 1984. v. 38. p. 191-194. Includes 8 references. (NAL Call No.: DNAL 79.9 N814).

0122
Herbicides for chemical fallow in northeastern Colorado (Weed control).
Anderson, R.L. Smika, D.E. Fort Collins, Colo. : The Service. Bulletin - Cooperative Extension Service, Colorado State University. Sept 1983. Sept 1983. (586). 4 p. Includes references. (NAL Call No.: 275.29 C71E).

0123
Herbicides for grass control in no-till planted soybeans.
MAEBB. Johnson, J.R. Arnold, B.L.; Hurst, H.R. Mississippi State, Miss. : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Feb 1985. (936). 5 p. Includes 2 references. (NAL Call No.: DNAL S79.E3).

0124
Herbicides for sod-seeding establishment of alfalfa (Medicago sativa) in quackgrass (Agropyron repens)-infested alfalfa swards.
WEESA6. Leroux, G.D. Harvey R.G. Champaign, Ill. : Weed Science Society of America. Weed science. Mar 1985. v. 33 (2). p. 222-228. Includes 24 references. (NAL Call No.: DNAL 79.8 W41).

0125
Herbicides in no-tillage systems involving wheat.
TAEMA. Wiese, A.F. Lavake, D.E. College Station, Tex. : The Station. Miscellaneous publication MP - Texas Agricultural Experiment Station. May 1984. (1547). 17 p. Includes references. (NAL Call No.: DNAL 100 T31M).

0126
High yields, land use and land abuse.
Lal, R. Washington, D.C. : U.S. Department of Agriculture, International Agricultural Development Service. International agricultural development. Nov/Dec 1984. v. 4 (6). p. 1-8, 16. ill. (NAL Call No.: DNAL aS544.A3I6).

0127
How Aussies view our no-tillage drills (Hoe drills, slot planters, chisel plow-air seeders, Australia).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. June 1984. v. 13 (6). p. 8. ill. (NAL Call No.: S604.N6).

0128
How four no-till planters measure up (Equipment, field comparison).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 6. ill. (NAL Call No.: S604.N6).

0129
How tillage choice can affect your corn crop (Comparison of conventional tillage, till-plant, chisel plow and no-tillage cultivation, Wisconsin).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Nov 1984. v. 13 (11). p. 4. ill. (NAL Call No.: S604.N6).

0130
How 17 no-till cultivators compare (Heavy residue cultivators, mechanical weed control).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Apr 1984. Apr 1984. p. 10. ill. (NAL Call No.: S604.N6).

0131
Hybrid and irrigation effects on conservation tillage corn in the Coastal Plain.
AGJOAT. Karlen, D.L. Sojka, R.E. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1985. v. 77 (4). p. 561-567. Includes 14 references. (NAL Call No.: DNAL 4 AM34P).

0132
"If that's not efficient I don't know what is!".
NZJAA. Hutching, G. Auckland : Deslandes Ltd. New Zealand journal of agriculture. Mar 1984. v. 148 (2). p. 2-3. ill. (NAL Call No.: DNAL 23 N48J).

0133
Improved mulch tiller for conservation tillage.
Jensen, T.C. Postal, J.J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1021). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0134
Income and risk associated with various pest management levels, tillage systems, and crop rotations: an analysis of experimental data.
Zavaleta, L.R. Eleveld, B.; Kogan, M.; Wax, L.; Kuhlman, D.; Lim, S.M. Urbana, Ill. : The Department. Extract: Budgets for producing and protecting corn and soybean crops were generated for three cropping systems using three levels of pest management and two tillage practices. The corn-soybean rotation produced higher yields and higher net returns than either the continuous corn or soybean cropping system, and it generally had the lowest risk for any of the tillage systems at each management level. Neither conventional nor reduced tillage appeared to dominate; neither did high, medium, or low chemical input dominate. AERR - University of Illinois, Department of Agricultural Economics. Apr 1984. Apr 1984. (191). 19 p. Includes 10 references. (NAL Call No.: 281.9 IL62).

0135
Increased take-all of wheat with direct drilling in the Pacific Northwest (Gaeumannomyces graminis tritici, conservation tillage, Washington).
Moore, K.J. Cook, R.J. St. Paul, Minn. : American Phytopathological Society. Phytopathology. Sept 1984. v. 74 (9). p. 1044-1049. ill. Includes 20 references. (NAL Call No.: 464.8 P56).

0136
Infiltration of slot-mulch tillage: simulation and field verification.
Saxton, K.E. Campbell, G.S. St. Joseph, Mich. : American Society of Agricultural Engineers, c1983. Advances in infiltration : proceedings of the National Conference on Advances in Infiltration, December 12-13, 1983, Hyatt Regency Illinois Center, Chicago, Illinois. p. 284-291. ill. Includes 23 references. (NAL Call No.: DNAL TC176.N38 1983).

0137
Influence of conservation tillage systems on corn and soybean yields (Maize).
Thurlow, D.L. Edwards, J.H.; Eason, J.T. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Summer 1984. v. 31 (2). p. 5. ill. (NAL Call No.: 100 AL1H).

0138
Influence of flowering weeds associated with reduced tillage in corn on a black cutworm (Lepidoptera:Noctuidae) parasitoid, Meteorus rubens (Nees von Esenbeck) (Agrotis ipsilon).
Foster, M.A. Ruesink, W.G. College Park, Md. : Entomological Society of America. Environmental entomology. June 1984. v. 13 (3). p. 664-668. Includes references. (NAL Call No.: QL461.E532).

0139
Influence of reduced tillage on furrow irrigation infiltration.
Eisenhauer, D.E. Dickey, E.C.; Fischbach, P.E.; Frank, K.D. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2587). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0140
Influence of tillage practices and row spacing on soybean insect populations in Louisiana.
JEENAI. Troxclair, N.N. Jr. Boethel, D.J. College Park, Md. : Entomological Society of America. Journal of economic entomology. Dec 1984. v. 77 (6). p. 1571-1579. Includes references. (NAL Call No.: DNAL 421 J822).

0141
Is the big horsepower tractor race now over? (No-tillage cultivation).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Sept 1984. v. 13 (9). p. 4. ill. (NAL Call No.: S604.N6).

0142
Large-scale evaluation of a till plant system (Corn, soybean rotation, Iowa).
Colvin, T. Erbach, D.; Marley, S.; Erickson, H. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1027). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0143
Legume cover crops in production of no-tillage corn.
Frye, W.W. Herbek, J.H.; Blevins, R.L. New York : Praeger, 1983. Environmentally sound agriculture : selected papers, 4th conference, International Federation of Organic Agriculture Movements, Cambridge, Mass., August 18-20, 1982 / edited by William Lockeretz. p. 179-191. Includes 12 references. (NAL Call No.: DNAL S604.5.E58).

0144
Long term weather records to assess best management practices (Soil erosion, storm magnitude, no-till practices, Michigan).
Gold, A.J. Loudon, T.; Nurnburger, F.V. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-2043). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0145
Looking ahead to no-till (Crop rotation, cultivation, peanuts, Alabama).
Barnes, H. Maeder, M. Raleigh, N.C. : Specialized Agricultural Publications. The peanut farmer. July 1984. v. 20 (7). p. 16-17. ill. (NAL Call No.: SB351.A1P3).

0146
Managing corn residue to control soil and nutrient losses (Runoff, simulated rainfall plots, conservation tillage).
Mickelson, S.K. Baker, J.L.; Laflen, J.M. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-2161). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0147
Micromycetes in the rhizosphere, the rhizoplane and the roots of wheat under conventional and zero tillage.
Herman, M. Amsterdam : Elsevier. Soil & tillage research. Dec 1984. v. 4 (6). p. 591-598. ill. Includes references. (NAL Call No.: DNAL S590.S48).

0148
Minimum disturbance fertilizer knifing for no-till.
Chichester, F.W. Morrison, J.E. Jr.; Gerik, T.J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for

information and prices. 1984. (fiche no. 84-1009). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0149
A minimum till fluid drill.
Ghate, S.R. Phatak, S.C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1518). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0150
Minimum-till peanuts.
Hartzog, D. Adams, F. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Summer 1984. v. 31 (2). p. 13. ill. (NAL Call No.: 100 AL1H).

0151
Minimum-tillage forage turnip and rape production on hill land as influenced by sod suppression and fertilizer (Brassica species, Pennsylvania).
Jung, G.A. Kocher, R.E.; Glica, A. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1984. v. 76 (3). p. 404-408. Includes references. (NAL Call No.: 4 AM34P).

0152
Minimum tillage systems for continuous wheat cropping in Oklahoma.
Gerling, J.F. Downs, H.W.; Solie, J.; Stiegler, J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1525). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0153
Minimum/zero/conservation tillage, January, 1979--May, 1982.
Maclean, J.T. Beltsville, Md. : The Library. Quick bibliography series - National Agricultural Library. July 1982. Updates Quick Bibliography no. 81-23 -Bibliography. July 1982. (82-19). 41 p. (NAL Call No.: aZ5071.N3).

0154
Mitigation of soil constraints to cereal production.
Cannell, R.Q. London : Butterworth, c1984. Cereal production : Proceedings of the Second International Summer School in Agriculture / held by the Royal Dublin Society in cooperation with W.K. Kellogg Foundation : edited by E.J. Gallagher. Literature review. p. 193-210. ill., maps. Includes references. (NAL Call No.: DNAL SB188.2.I58 1982).

0155
Moisture regimes of three conservation tillage systems.
Johnson, M.D. Lowery, B.; Daniel, T.C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2019). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0156
Narrow row soybean production in untilled oat stubble.
AGJOAT. Burnside, O.C. Moomaw, R.S. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1985. v. 77 (1). p. 36-40. Includes 11 references. (NAL Call No.: DNAL 4 AM34P).

0157
Nematode population and community dynamics in soybean-wheat cropping and tillage regimes.
JONEB. Baird, S.M. Bernard, E.C. Raleigh, N.C. : Society of Nematologists. Journal of nematology. Oct 1984. v. 16 (4). p. 379-386. ill. Includes 19 references. (NAL Call No.: DNAL QL391.N4J62).

0158
New disease found in no-tilled wheat, barley.
CRSOA. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Oct 1984. v. 37 (1). p. 26. ill. (NAL Call No.: DNAL 6 W55).

0159
Nitrification and denitrification in conventional and no-tillage soils.
SSSJD4. Groffman, P.M. Madison, Wis. : The Society. Journal - Soil Science Society of America. Mar/Apr 1985. v. 49 (2). p. 329-334. ill. Includes references. (NAL Call No.: DNAL 56.9 S03).

0160
Nitrogen and phosphorus losses from corn-soybean rotations as affected by tillage practices (Plows, chisels, no-till practices, Iowa).
Laflen, J.M. Tabatabai, M.A. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Jan/Feb 1984. v. 27 (1). p. 58-63. Includes references. (NAL Call No.: 290.9 AM32T).

0161
Nitrogen cycling in conventional and no-tillage agroecosystems in the southern Piedmont (Sorghum soybeans, southeastern United States).
House, G.J. Stinner, B.R.; Crossley, D.A. Jr.; Odum, E.P.; Langdale, G.W. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. May/June 1984. v. 39 (3). p. 194-200. ill. Includes references. (NAL Call No.: 56.8 J822).

0162
Nitrogen utilization of corn under minimal tillage and moldboard plow tillage. I. Four-year results using labeled N fertilizer on an Atlantic coastal plain soil.
AGJOAT. Meisinger, J.J. Bandel, V.A.; Stanford, G.; Legg, J.O. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1985. v. 77 (4). p. 602-611. Includes 23 references. (NAL Call No.: DNAL 4 AM34P).

0163
No-till, a good choice after PIK (Payment-In-Kind).
Comis, D.L. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. Jan 1984. v. 4 (10). p. 3. (NAL Call No.: aS622.S6).

0164
No-till alfalfa establishment.
Wolf, D.D. White, H.E. Lexington, Ky. : American Forage and Grassland Council. Proceedings of the Forage and Grassland Conference. 1984. Paper presented at the 1984 Forage and Grassland Conference on Forage Systems: Leading U.S. Agriculture into the Future, January 23-26, 1984, Houston, Texas. 1984. p. 261-264. (NAL Call No.: 60.19 J66).

0165
No-till benefits upland game birds.
Hale, K. Van Dyke, W. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. Mar 1985. v. 5 (12). p. 7. (NAL Call No.: DNAL aS622.S6).

0166
No-till boosts yields after irrigated crops (Wheat fallow-dryland-sorghum system).
Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. July 1984. v. 5 (4). p. 8-9. (NAL Call No.: aS622.S6).

0167
No-till corn.
Bitzer, M.J. Lexington : The Service. AGR - University of Kentucky, Cooperative Extension Service. Aug 1983. (100). 4 p. ill. (NAL Call No.: DNAL S65.K4).

0168
No-till lets him crop rolling hills (No-tillage cultivation, maize, Iowa).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Sept 1984. v. 13 (9). p. 6. ill. (NAL Call No.: S604.N6).

0169
No-till may cut tobacco soil erosion.
CRSOA. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Dec 1984. v. 37 (3). p. 24-25. ill. (NAL Call No.: DNAL 6 W55).

0170
No-till pays off with sorghum (Higher yields, Kansas).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. July 1984. v. 13 (7). p. 2. (NAL Call No.: S604.N6).

0171
No-till peaches get head start.
AGREA. Black, A. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. May 1985. v. 33 (5). p. 14. (NAL Call No.: DNAL 1.98 AG84).

0172
No-till popcorn performs as well as conventionally grown popcorn.
HJHSA. Knavel, D.E. Herron, J.W.; White, G.M. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1985. v. 20 (1). p. 136-137. Includes 9 references. (NAL Call No.: DNAL SB1.H6).

0173
No-till seeder cost.
Moore, J.M. Blacksburg : Extension Division, Virginia Polytechnic Institute and State University. Extract: Many farmers are interested in no-till grass or legume seeders....This publication looks solely at the ownership cost of a no-till seeder....The ownership cost of a no-till seeder depends upon several factors, many of which are unknown because it is so new....Two types of owners may wish to know their ownership cost. One is a farmer who plans to use the seeder himself and, perhaps also, to rent it to neighbors. The other is a public agency...that wants to rent the seeder to farmers. There is a difference in the cost calculations for these owners....Both options are shown. Publication - Extension Division, Virginia Polytechnic Institute and State University. Nov 1982. Predominantly tables. Nov 1982. (446-004). 8 p. (NAL Call No.: S544.3.V8V52).

0174
No-till snap bean trials (Phaseolus vulgaris).
Mullins, C.A. Geneva, N.Y. : Bean Improvement Cooperative. Annual report of the Bean Improvement Cooperative. 1984. v. 27. p. 149-151. (NAL Call No.: SB327.A1B5).

0175
No-till solid-seeded soybeans.
Colvin, T.S. Laflen, J.M.; Marley, S.J. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1515). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0176
No-till soybeans.
Herbek, J.H. Lexington : The Service. AGR - University of Kentucky, Cooperative Extension Service. Aug 1983. (101). 4 p. ill. (NAL Call No.: DNAL S65.K4).

0177
No-till vegetables: is the time now ripe.
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. July 1984. v. 13 (7). p. 5. (NAL Call No.: S604.N6).

0178
No-till works with furrow-irrigated corn (Topsoil preservation, water holding capacity).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. June 1984. v. 13 (6). p. 9. ill. (NAL Call No.: S604.N6).

0179
No-tillage / W.H. Mitchell.
Mitchell, W. H. Newark, Del. Cooperative Extension Service, University of Delaware (19--?). 1 folded sheet (6 p.) : col. ill. ; 28 cm. -. (NAL Call No.: MLCM 84/1035).

0180
No-tillage drill design.
WUEXA. Hermanson, R.E. Hyde, G.M. Pullman, Wash. : The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Apr 1984. (1318). 4 p. ill. Includes 8 references. (NAL Call No.: DNAL 275.29 W27P).

0181
No-tillage helps beat the drought (Soil moisture conservation, sorghum, Kansas).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Sept 1984. v. 13 (9). p. 8. ill. (NAL Call No.: S604.N6).

0182
A no-tillage plot drill design.
Hyde, G.M. Simpson, J.B.; Mohamed, M.G. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1018). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0183
No-tilled wheat is set to catch on faster than a "wild fire in a Kansas wheat field" (Small grain production, USA).
Lessiter, F. Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Aug 1984. v. 13 (8). p. 4-5. ill. (NAL Call No.: S604.N6).

0184
Non-informed against no-till herbicides (Paraquat, Gramoxone, Marijuana, illegal crops, toxic residues).
Lessiter, F. Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Oct 1984. v. 13 (10). p. 4-5. (NAL Call No.: S604.N6).

0185
Nutrient budgets and internal cycling of N, P, K, Ca, and Mg (nitrogen, phosphorus, potassium, calcium and magnesium) in conventional tillage, no-tillage and old-field ecosystems on the Georgia piedmont.
Stinner, B.R. Crossley, D.A. Jr.; Odum, E.P.; Todd, R.L. Durham, N.C. : Ecological Society of America. Ecology : a publication of the Ecological Society of America. Apr 1984. v. 65 (2). p. 354-369. ill. Includes references. (NAL Call No.: 410 EC7).

0186
Nutrient losses in runoff from conventional and no-till corn watersheds (Nonpoint-source pollution, Maryland).
Angle, J.S. McClung, G.; McIntosh, M.S.; Thomas, P.M.; Wolf, D.C. Madison, Wis. : American Society of Agronomy. Journal of environmental quality. July/Sept 1984. v. 13 (3). p. 431-435. Includes references. (NAL Call No.: QH540.J6).

0187
Overview of pest management in conservation tillage.
Frisbie, R.E. Knake, E.L.; Reichelderfer, K. Ames, Iowa : Iowa State University Press, 1984. Future agricultural technology and resource conservation : proceedings, RCA Symposium, Future Agricultural Technology and Resource Conservation, held Dec. 5-9, 1982, Washington, D.C. / edited by B.C. English ... (et al.). p. 421-440. ill. Includes 2 p. references. (NAL Call No.: S441.R2 1982A).

0188
Paired rows push no-till grain yields up.
AGREA. Sherman, H. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. Apr 1985. v. 33 (4). p. 11-12. ill. (NAL Call No.: DNAL 1.98 AG84).

0189
Pay attention to detail in double-cropping beans (Soybeans, management to boost no-till yields and profits).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 11. ill. (NAL Call No.: S604.N6).

0190
Performance of powered-disc coulters under zero-till practices.
Kushwaha, R.L. Vaishnav, A.S.; Zoerb, G.C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1514). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0191
Phosphorus losses as affected by tillage and manure application (Conventional, chisel, and no-till systems, maize, pollution potential of surface runoff).
Mueller, D.H. Wendt, R.C.; Daniel, T.C. Madison, Wis. : The Society. Journal - Soil Science Society of America. July/Aug 1984. v. 48 (4). p. 901-905. Includes 23 references. (NAL Call No.: 56.9 S03).

0192
Plathypena scabra (F.) (Lepidoptera: Noctuidae) populations and the incidence of natural enemies in four soybean tillage systems.
JEENAI. Thorvilson, H.G. Pedigo, L.P.; Lewis, L.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1985. v. 78 (1). p. 213-218. Includes references. (NAL Call No.: DNAL 421 J822).

0193
Plowbusting: conservation tillage comes of age.
Magleby, R. Washington, D.C. : The Service. Farmline - United States Dept. of Agriculture, Economic Research Service. July 1985. v. 6 (7). p. 4-5. ill., maps. (NAL Call No.: DNAL aHD1401.A2U52).

0194
Potential of direct drilling in developing countries (Cultivation technique, no-till).
Chaudhary, A.D. Tokyo : Farm Machinery Industrial Research Corp. AMA, agricultural mechanization in Asia, Africa and Latin America. Autumn 1983. v. 14 (4). p. 15-19. Includes references. (NAL Call No.: S760.A75A35).

0195
Potential of direct drilling in Pakistan (Tillage research).
Choudhary, M.A. Tokyo : Farm Machinery Industrial Research Corp. AMA, agricultural mechanization in Asia, Africa and Latin America. Autumn 1983. v. 14 (4). p. 20-24. ill., maps. Includes references. (NAL Call No.: S760.A75A35).

0196
Predators reduce black cutworm damage in no-tillage corn.
ORRDA. Brust, G.E. McCartney, D.A.; Stinner, B.R. Wooster, Ohio : The Center. Ohio report on research and development in agriculture, home economics, and natural resources - Ohio Agricultural Research and Development Center. May/June 1985. v. 70 (3). p. 35-36. (NAL Call No.: DNAL 100 OH3S (3)).

0197
Predicting corn planting dates for moldboard and no-till tillage systems in the corn belt.
AGJOAT. Gupta, S.C. Madison, Wis. : American Society of Agronomy. Agronomy journal. Includes planting date maps. May/June 1985. v. 77 (3). p. 446-455. maps. Includes 14 references. (NAL Call No.: DNAL 4 AM34P).

0198
Present status of citrus weed control in Italy.
Lo Giudice, V. Shimizu, Japan : International Society of Citriculture, 1982-1983. Proceedings of the International Society of Citriculture / International Citrus Congress, November 9-12, 1981, Tokyo, Japan ; K. Matsumoto, editor . p. 485-487. Includes 8 references. (NAL Call No.: DNAL SB369.I5 1981).

0199
Proceedings of the Minisymposium on Legume Cover Crops for Conservation Tillage Production Systems, Atlanta, Georgia, October 28-29, 1981 /sponsored by Chevron Chemical Company ; William L. Hargrove, editor. -.
Hargrove, William L. Athens, Ga. : Agricultural Experiment Stations, University of Georgia, 1982. Cover title.~ "June 1982.". 21 p. : ill. ; 28 cm. -. (NAL Call No.: DNAL HD1775.G4G43 no.19).

0200
Producers 'break tradition' (Conservation tillage methods to reduce soil erosion).
Dickey, E.C. Lincoln, Neb. : The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. 1984. v. 30 (3,special edition). p. 5-6. ill. (NAL Call No.: 100 N27N).

0201
A punch plant for conservation tillage (Cultural practices, new tools and techniques).
Srivastava, A.K. Anibal, M.E. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1020). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0202
Raindrop view of soil residue (No-till wheat and grain sorghum stubble, erosion).
Morrison, J.E. Jr. Gerik, T.J.; Bartek, L.A. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-2042). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0203
Reduced seedbed tillage effects on irrigated sugarbeet yield and quality (No-tillage, strip tillage, wind erosion control, Montana).
Halvorson, A.D. Hartman, G.P. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 603-606. ill. Includes references. (NAL Call No.: 4 AM34P).

0204
Reduced tillage for millet establishment in wheat stubble.
TISAA. Jones, J.H. Olsen, F.J. Springfield : The Academy. Transactions of the Illinois State Academy of Science. 1984. v. 77 (1/2). p. 103-111. ill. Includes 8 references. (NAL Call No.: DNAL 500 IL6).

0205
Reduced tillage for soybeans.
TAAEA. Mutchler, C.K. Greer, J.D. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1984. v. 27 (5). p. 1364-1369. Includes 8 references. (NAL Call No.: DNAL 290.9 AM32T).

0206
Reduced tillage for soybeans (Wheat).
Mutchler, C.K. Greer, J.D. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-2537). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0207
Reduced tillage in north-west Europe--a review.
Cannell, R.Q. Amsterdam : Elsevier Science Publishers B.V. Soil & tillage research. Literature review. Apr 1985. v. 5 (2). p. 129-177. ill. Includes references. (NAL Call No.: DNAL S590.S48).

0208
Reduced tillage in the communal areas.
RAGJA. Shumba, E.M. Salisbury : Ministry of Agriculture. Zimbabwe agricultural journal. Nov/Dec 1984. v. 81 (6). p. 235-239. Includes references. (NAL Call No.: DNAL 24 R34).

0209
Reduced tillage research in Louisiana.
LAXBA. Dabney, S.M. Allen, M.; Bagley, P.; Boethel, D.J.; Boquet, D.J.; Crawford, S.A.; Griffin, J.L.; Hallmark, W.B.; Hutchinson, R.L.; Marshall, J.G. Baton Rouge, La. : The Station. Bulletin - Louisiana Agricultural Experiment Station. Oct 1984. (765). 21 p. Includes references. (NAL Call No.: DNAL 100 L93 (1)).

0210
Reduced tillage studies on irrigated sandy loam soil in corn and soybean production (Zea mays, Glycine max).
Schuler, R.T. Bauder, J.W. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1013). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0211
Reduction of greenbug (Homoptera:Aphididae) populations by surface residues in wheat tillage studies.
JEENAI. Burton, R.L. Krenzer, E.G. Jr. College Park, Md. : Entomological Society of America. Journal of economic entomology. Apr 1985. v. 78 (2). p. 390-394. ill. Includes references. (NAL Call No.: DNAL 421 J822).

0212
Release and recovery of nitrogen from winter annual cover crops in no-till corn production.
CSOSA2. Huntington, T.G. Grove, J.H.; Frye, W.W. New York, N.Y. : Marcel Dekker. Communications in soil science

and plant analysis. Feb 1985. v. 16 (2). p. 193-211. Includes 31 references. (NAL Call No.: DNAL S590.C63).

0213
Residue management in double-crop conservation tillage systems (Wheat, grain sorghum, Georgia).
Langdale, G.W. Hargrove, W.L.; Giddens, J. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 689-694. ill. Includes references. (NAL Call No.: 4 AM34P).

0214
Response of spring wheat to N fertilizer placement, row spacing, and wild oat herbicides in a no-till system.
AGJOAT. Reinertsen, M.R. Cochran, V.L.; Morrow, L.A. Madison, Wis. : American Society of Agronomy. Agronomy journal. Sept/Oct 1984. v. 76 (5). p. 753-756. Includes 24 references. (NAL Call No.: DNAL 4 AM34P).

0215
Results of minimum tillage in Czechoslovakia.
Suskevic, M. Kos, M. Praha : Ustav vedeckotechnickych informaci, Ceskoslovenske akademie zemedelske. Scientia agriculturae Bohemoslovaca. 1982. v. 14 (4). p. 261-264. Includes references. (NAL Call No.: SB183.S3).

0216
Ridge forming tools for reduced tillage (Cultural practices, new tools and techniques).
Kolstad, O.C. Schuler, R.T.; Randall, G.W. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1018). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0217
The role of conservation tillae in weed management in the advancing countries.
Akobundu, I.O. Rome, Italy : Food and Agriculture Organization of the United Nations. FAO plant production and protection paper. 1982/1983. Paper presented at the FAO/IWSS Expert Consultation on Improving Weed Management in Developing Countries, Rome, 6-10 September 1982 -Literature review. 1982/1983. (44). p. 23-29. Includes references. (NAL Call No.: SB13.F6).

0218
Role of legume cover crops in conservation tillage production systems (Soil erosion, nitrogen supply, crimson clover, Trifolium incarnatum, sorghum, Sorghum bicolor).
Hargrove, W.L. Langdale, G.W.; Thomas, A.W. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-2038). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0219
Rolling coulter performance under a no-till system.
Choi, C.H. Erbach, D.C. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1544). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0220
Scoring a conservation tillage contest.
Adelman, K. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. July/Aug 1984. v. 39 (4). p. 244-245. ill. (NAL Call No.: 56.8 J822).

0221
Screening living mulches and cover crops for weed suppression in no till sweet corn.
PNWSB. DeGregorio, R.E. Ashley, R.A. Beltsville, Md. : The Society. Proceedings of the ... annual meeting - Northeastern Weed Science Society. 1985. v. 39. p. 80-84. Includes 8 references. (NAL Call No.: DNAL 79.9 N814).

0222
Seedbed preparation and chemical incorporation in conservation tillage (Equipment).
Bucher, D.H. Long, J.D.; Sorlie, D.T. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1983. Paper presented at the 1983 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1983. (fiche no. 83-1521). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0223
Seedcorn maggot (Diptera: Anthomyiidae) emergence in conventional and reduced-tillage soybean systems in Iowa (Hylemya platura).
Funderburk, J.E. Pedigo, L.P.; Berry,

E.C. College Park, Md. : Entomological Society of America. Journal of economic entomology. Feb 1983. v. 76 (1). p. 131-134. Includes references. (NAL Call No.: 421 J822).

0224
Select no-till units carefully (Planters and drills, equipment purchasing guidelines).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 2-3. (NAL Call No.: S604.N6).

0225
Selected best management practices in southeastern Idaho.
Michalson, E.L. Powell, M.L.; Brooks, R.D. Moscow : The Service. Current information series - Cooperative Extension Service, University of Idaho. Dec 1983. (721). 4 p. (NAL Call No.: DNAL 275.29 ID13IDC).

0226
Self-burial of wild oat florets.
AGJOAT. Somody, C.N. Nalewaja, J.D.; Miller, S.D. Madison, Wis. : American Society of Agronomy. Agronomy journal. May/June 1985. v. 77 (3). p. 359-362. ill. Includes 5 references. (NAL Call No.: DNAL 4 AM34P).

0227
"Shoot" fertilizer through your stubble (High-pressure liquid fertilizer applicators, no-tillage).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Aug 1984. v. 13 (8). p. 6. ill. (NAL Call No.: S604.N6).

0228
Slick tricks for better no-tilling (Planting and drilling, equipment, methods).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. July 1984. v. 13 (7). p. 4. ill. (NAL Call No.: S604.N6).

0229
Slick tricks for killing off alfalfa (Before no-tilling corn into sod, herbicides).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Aug 1984. v. 13 (8). p. 8. ill. (NAL Call No.: S604.N6).

0230
Sod seeding of forages. I. Alternative to conventional establishment.
NHABA. Koch, D.W. Mueller-Warrant, G.W.; Mitchell, J.R. Durham : The Station. Bulletin - New Hampshire Agricultural Experiment Station. Apr 1983. (525). 29 p. Includes 17 references. (NAL Call No.: DNAL 100 N45 (1)).

0231
Sod seeding of forages. II. Vegetation control.
NHABA. Mueller-Warrant, G.W. Koch, D.W.; Mitchell, J.R. Durham : The Station. Bulletin - New Hampshire Agricultural Experiment Station. Apr 1983. (526). 18 p. Includes 23 references. (NAL Call No.: DNAL 100 N45 (1)).

0232
Soil and fertilizers-N transformations under simulated zero till: effect of temperature regimes.
Rennie, D.A. Heimo, M. Ottawa : Agricultural Institute of Canada. Canadian journal of soil science = Revue canadienne de la science du sol. Feb 1984. v. 64 (1). p. 1-8. Includes references. (NAL Call No.: 56.8 C162).

0233
Soil and water loss from no-till, narrow-row soybeans. (((((((.
Laflen, J.M. Colvin, T.S. St. Joseph, Mich. : The Society. Paper.- American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-2023). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0234
Soil and water losses as affected by tillage and manure application (Conventional, chisel, and no-till systems, maize).
Mueller, D.H. Wendt, R.C.; Daniel, T.C. Madison, Wis. : The Society. Journal - Soil Science Society of America. July/Aug 1984. v. 48 (4). p. 896-900. Includes 26 references. (NAL Call No.: 56.9 S03).

0235
Soil biology and biochemical nitrogen transformations in no-tilled soils.
Smith, M.S. Rice, C.W. New York : Praeger, 1983. Environmentally sound agriculture : selected papers, 4th conference, International Federation of Organic Agriculture Movements, Cambridge, Mass., August 18-20, 1982 / edited by William Lockeretz. p. 215-226. Includes references. (NAL Call No.: DNAL S604.5.E58).

0236
Soil compaction. I. Where, how bad, a problem.
CRSOA. Dickey, E.C. Peterson, T.R.; Eisenhauer, D.E.; Jasa, P.J. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Aug/Sept 1985. v. 37 (9). p. 12-14. ill. (NAL Call No.: DNAL 6 W55).

0237
Soil condition and corn growth response to paraplowing (Comparison study, no-till, chisel plow, moldboard plow, corn).
Erbach, D.C. Cruse, R.M.; Elamin, M.A.; Mukhtar, S.; Benjamin, J.G.; Choi, C.H. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of

Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-1013). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0238
Soil degdradation and land use changes: A representative-farm analysis Illinois Soil Erosion and Sedimentation Control Act of 1977, Federal Water Pollution Control Act Amendments of 1972 .
JSWCA3. Kraft, S.E. Toohill, T.L. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Sept/Oct 1984. v. 39 (5). p. 334-338. Includes 13 references. (NAL Call No.: DNAL 56.8 J822).

0239
Soil loss from no-till cotton (Erosion, Mississippi).
Mutchler, C.K. McDowell, L.L.; Greer, J.D. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1984. Paper presented at the 1984 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1984. (fiche no. 84-2039). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0240
Soil loss reduction in Finley Creek, Indiana: an economic analysis of alternative policies.
JSWCA3. Lee, J.G. Lovejoy, S.B.; Beasley, D.B. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Jan/Feb 1985. v. 40 (1). p. 132-135. ill. Includes 7 references. (NAL Call No.: DNAL 56.8 J822).

0241
Soil management factors affecting growth and yield of citrus trees.
Cary, P.R. Shimizu, Japan : International Society of Citriculture, 1982-1983. Proceedings of the International Society of Citriculture / International Citrus Congress, November 9-12, 1981, Tokyo, Japan ; K. Matsumoto, editor . p. 527-530. Includes 37 references. (NAL Call No.: DNAL SB369.I5 1981).

0242
Soil moisture regimes of three conservation tillage systems chisel plowing, till-plant notill .
TAAEA. Johnson, M.D. Lowery, B.; Daniel, T.C. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1984. v. 27 (5). p. 1385-1390, 1395. Includes 16 references. (NAL Call No.: DNAL 290.9 AM32T).

0243
Soil physical characteristics of reduced tillage.
Mielke, L.N. Wilhelm, W.W.; Richards, K.A. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-2022). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0244
Soil-solution phase interactions of basic cations in long-term tillage systems.
SSSJD4. Evangelou, V.P. Blevins, R.L. Madison, Wis. : The Society. Journal - Soil Science Society of America. Mar/Apr 1985. v. 49 (2). p. 357-362. ill. Includes references. (NAL Call No.: DNAL 56.9 S03).

0245
A soil suitability guide for different tillage systems in the tropics.
Lal, R. Amsterdam : Elsevier Science Publishers B.V. Soil & tillage research. Apr 1985. v. 5 (2). p. 179-196. ill. Includes references. (NAL Call No.: DNAL S590.S48).

0246
Some developments in direct drilling equipment in New Zealand (No-till).
Baker, C.J. Tokyo : Farm Machinery Industrial Research Corp. AMA, agricultural mechanization in Asia, Africa and Latin America. Autumn 1983. v. 14 (4). p. 25-30. Includes references. (NAL Call No.: S760.A75A35).

0247
Some no-till surprises (Demonstrations, Farm Progress Show in Iowa).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. May 1984. v. 12 (5). p. 2. (NAL Call No.: S604.N6).

0248
Some observations on ecology of the stalk borer (Papaipema nebris (Gn.):Noctuidae) in no-tillage corn agroecosystems (Ohio).
Stinner, B.R. McCartney, D.A.; Rubink, W.L. Athens, Ga. : The Society. Journal of the Georgia Entomological Society. Apr 1984. v. 19 (2). p. 229-234. Includes references. (NAL Call No.: QL461.G4).

0249
Soybean row width in a ridge-plant tillage system.
MXMRA. Randall, G.W. Walters, D.T.; Kelly, P.L. St. Paul : The Station. Miscellaneous publication - University of Minnesota, Agricultural Experiment Station. 1985. (2,rev.). p. 114-116. (NAL Call No.: DNAL S1.M52).

0250
Soybean stubble: Till it or no-till it? (Reduced tillage).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Sept 1984. v. 13 (9). p. 5. ill. (NAL Call No.: S604.N6).

0251
Specter of another Dust Bowl seems laid to rest (Soil conservation, eco-fallow tillage, no-till farming, Great Plains).
Schwien, J.D. Willis, W.O.; Grable, A.R. Washington, D.C. : U.S. Department of Agriculture. The Yearbook of agriculture. 1983. 1983. p. 422-429. ill. (NAL Call No.: 1 AG84Y).

0252
Stormy weather shows benefits of no-tilling (No-tillage, erosion, heavy rains, Kansas).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Sept 1984. v. 13 (9). p. 5. (NAL Call No.: S604.N6).

0253
Strip tillage for sugar beet on heavy land.
Nuttall, M. London : British Sugar Corporation. British sugar beet review. Spring 1983. v. 51 (1). p. 98-100. ill.. (NAL Call No.: 66.8 B77).

0254
Studies on possibilites of zero tillage in cotton-wheat rotation.
IJAGA, Baliyan, R.S. Bhan, V.M.; Mallik, R.K. New Delhi : Indian Society of Agronomy. Indian journal of agronomy. June 1984. v. 29 (2). p. 170-172. Includes references. (NAL Call No.: DNAL 22 IN235).

0255
Subsoil characteristics influence hydrologic response to no-tillage.
Edwards, W.M. Amerman, C.R. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. July/Aug 1984. v. 27 (4). p. 1055-1058. Includes references. (NAL Call No.: 290.9 AM32T).

0256
Subsurface injection--incorporate chemicals without burying residues.
Ehmke, V. St. Louis, Mo. : American Soybean Association. Soybean digest. Dec 1984. v. 45 (2). p. 42-43. ill. (NAL Call No.: DNAL 60.38 S09).

0257
Subsurface liquid and anhydrous fertilizer placement in no-till wheat (Washington).
Hyde, G.M. Simpson, J.B.; Hermanson, R.E. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1020). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0258
Teaming with nature for conservation tillage: a concept (Cultural practices, new tools and techniques).
Johnson, C.E. Elkins, C.B.; Schafer, R.L. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1981. Paper presented at the 1981 Summer Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1981. (fiche no. 81-1019). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0259
Tennessee researchers find no-till, double-cropped soybeans cut erosion.
Comis, D.L. Washington, D.C. : The Service. Soil & water conservation news - United States Dept. of Agriculture, Soil Conservation Service. July 1984. v. 5 (4). p. 10. ill. (NAL Call No.: aS622.S6).

0260
There's lots new in weed control area (Herbicides for no-tillage).
Lessiter, F. Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. July 1984. v. 13 (7). p. 7. ill. (NAL Call No.: S604.N6).

0261
Tillage practices for soil and water conservation in the semi-arid zone. III. Runoff modeling as a tool for conservation tillage design (Israel).
Morin, J. Rawitz, E.; Hoogmoed, W.B.; Benyamini, Y. Amsterdam : Elsevier. Soil & tillage research. May 1984. v. 4 (3). p. 215-224. ill. Includes references. (NAL Call No.: S590.S48).

0262
Tillage success depends on the soil.
CRSOA. Madison, Wis. : American Society of Agronomy. Crops and soils magazine. Feb 1985. v. 37 (5). p. 19. (NAL Call No.: DNAL 6 W55).

0263
Tillage system X planting date interactions in corn production (No-tillage, yield, Ohio).
Eckert, D.J. Madison, Wis. : American Society of Agronomy. Agronomy journal. July/Aug 1984. v. 76 (4). p. 580-582. Includes references. (NAL Call No.: 4 AM34P).

0264
Tools for conservation tillage.
Bauder, J.W. Bozeman, Mont. : The Service. Montguide MT : Agriculture - Montana State University, Cooperative Extension Service. Feb 1983. (8305). 3 p. (NAL Call No.: DNAL S544.3.M9M65).

0265
Trends in conservation tillage use.
JSWCA3. Magleby, R. Gadsby, D.; Colacicco, D.; Thigpen, J. Ankeny, Iowa : Soil Conservation Society of America. Extract: A recent U.S. Department of Agriculture (USDA) survey of more than 11,000 farmers nationwide--the 1983 Farm Production Expenditure Survey (FPES) conducted in the spring of 1984--provided some national and regional insights into the use of conservation tillage practices. Covered were such aspects as the extent and location of use, crops grown, size of farm, cropland slope, tenure, reasons given for use of conservation tillage, and government assistance received. Journal of soil and water conservation. Includes statistical data. May/June 1985. v. 40 (3). p. 274-276. Includes 1 references. (NAL Call No.: DNAL 56.8 J822).

0266
The ultimate no-till systsem is a cow on grass.
AGREA. Pierce, R. Washington, D.C. : The Administration. Agricultural research - U.S. Department of Agriculture, Agricultural Research Service. May 1984 v. 32 (9). p. 8-10. ill. (NAL Call No.: DNAL 1.98 AG84).

0267
Understanding "Lo-Till" planters.
Downs, W. Stillwater : The Service. OSU current report - Oklahoma State University, Cooperative Extension Service. May 1982. (1213). 4 p. ill. (NAL Call No.: DNAL S451.0508).

0268
Upland crops trials using zero tillage after transplanted rice.
Andam, C.J. Miguel, V.I.; Callueng, M. Manila : The Board. NSTA technology journal - National Science Development Board. Apr/June 1984. v. 9 (2). p. 11-17. Includes 8 references. (NAL Call No.: DNAL T1.N7).

0269
Vegetation management systems and insect responses in the humid tropics of Costa Rica (No-tillage, Diabrotica balteata, Spodoptera frugiperda, Cyrtomenus bergi, Phyllophaga, maize production, weed control).
Shenk, M. Saunders, J.L. London : Centre for Overseas Pest Research. Tropical pest management. June 1984. v. 30 (2). p. 186-193. ill. Includes references. (NAL Call No.: SB950.A1P3).

0270
Views of no-till planting by West Tennessee farmers.
TFHSA. Leuthold, F.O. Hart, C.G. Knoxville, Tenn. : The Station. Tennessee farm and home science - Tennessee Agricultural Experiment Station. Oct/Dec 1984. (132). p. 2-5. Includes references. (NAL Call No.: DNAL 100 T25F).

0271
Wallowa County no-till spring barley trials 1984.
OASPA. Karow, R. Dickens, D. Corvallis, Or. : The Station. Special report - Oregon State University, Agricultural Experiment Station. June 1985. (738). p. 35-38. (NAL Call No.: DNAL 100 OR3M).

0272
Water percolation in a tropical alfisol under conventional plowing and no-till systems of management (Maize).
Ghuman, B.S. Lal, R. Amsterdam : Elsevier. Soil & tillage research. May 1984. v. 4 (3). p. 263-276. ill. Includes references. (NAL Call No.: S590.S48).

0273
Water storage, water use and maize yield for tillage systems on a tropical alfisol in Nigeria (Zero-tillage with mulch, ploughing, harrowing, plough only, manual system).
Osuji, G.E. Amsterdam : Elsevier. Soil & tillage research. July 1984. v. 4 (4). p. 339-348. ill. Includes 15 references. (NAL Call No.: S590.S48).

0274
Watershed evaluations of infiltration under conventional and no-till corn and two Ohio soils.
Edwards, W.M. Amerman, C.R. St. Joseph, Mich. : American Society of Agricultural Engineers, c1983. Advances in infiltration : proceedings of the National Conference on Advances in Infiltration, December 12-13, 1983, Hyatt Regency Illinois Center, Chicago, Illinois. p. 341-349. ill. Includes 15 references. (NAL Call No.: DNAL TC176.N38 1983).

0275
Weed control challenges with conservation tillage in the Great Plains.
Burnside, O.C. Totowa, N.J. : Rowman & Allanheld, 1985. Agricultural chemicals of the future : invited papers presented at a symposium held May 16-19, 1983, at the Beltsville Agricultural Research Center (BARC), Beltsville, Maryland / James L. Hilton, edit. p. 199-209. ill. Includes 21 references. (NAL Call No.: DNAL S583.2.A374).

0276
Weed control essential in reduced tillage.
Martin, A.R. Wicks, G.A. Lincoln, Neb. : The Station. Farm, ranch and home quarterly - Nebraska Agricultural Experiment Station. 1984. v. 30 (3,special edition). p. 11-13. ill. (NAL Call No.: 100 N27N).

0277
Weed control in full-season, no-till soybeans.
Wilson, H.P. Virginia Beach, Va. : Virginia Polytechnic Inst. and State University Cooperative Ext. Service. The Vegetable growers news. May/June 1984. v. 38 (6). p. 1. (NAL Call No.: 275.28 V52).

0278
Weed interference in maize, cowpea and maize/cowpea intercrop in a subhumid tropical environment. I. Influence of cropping season (No-tillage, Nigeria).
Ayeni, A.O. Duke, W.B.; Akobundu, I.O. Oxford : Blackwell Scientific Publications. Weed research. Aug 1984. v. 24 (4). p. 269-279. ill. Includes 28 references. (NAL Call No.: 79.8 W412).

0279
Weed interference in maize, cowpea and maize/cowpea intercrop in a subhumid tropical environment. II. Early growth and nutrient content of crops and weeds (No-tillage, Nigeria).
Ayeni, A.O. Akobundu, I.O.; Duke, W.B. Oxford : Blackwell Scientific Publications. Weed research. Aug 1984. v. 24 (4). p. 281-290. ill. Includes 9 references. (NAL Call No.: 79.8 W412).

0280
Weed interference in maize, cowpea and maize/cowpea intercrop in a subhumid tropical environment. III. Influence of land preparation.
WEREAT. Ayeni, A.O. Duke, W.B.; Akobundu, I.O. Oxford : Blackwell Scientific Publications. Weed research. Dec 1984. v. 24 (6). p. 439-448. ill. Includes 2 references. (NAL Call No.: DNAL 79.8 W412).

0281
Weed management in minimum-tillage peanuts (Arachis hypogaea) as influenced by cultivar, row spacing, and herbicides.
WEESA6. Colvin, D.L. Wehtje, G.R.; Patterson, M.; Walker, R.H. Champaign, Ill. : Weed Science Society of America. Weed science. Mar 1985. v. 33 (2). p. 233-237. Includes 14 references. (NAL Call No.: DNAL 79.8 W41).

0282
What's "new" in equipment lines (Farm machinery for no-till production).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. July 1984. v. 13 (7). p. 6. ill. (NAL Call No.: S604.N6).

0283
Wheat performance using no-tillage with controlled wheel traffic on a clay soil.
AGJOAT. Gerik, T.J. Morrison, J.E. Jr. Madison, Wis. : American Society of Agronomy. Agronomy journal. Jan/Feb 1985. v. 77 (1). p. 115-118. ill. Includes 22 references. (NAL Call No.: DNAL 4 AM34P).

0284
Wild oat control with minimum and zero tillage (Avena fatua, Saskatchewan).
Bowren, K.E. Regina, Sask. : Canadian Plains Research Center, University of Regina. Canadian plains proceedings. 1983. Paper presented at the "Wild Oat Symposium," October 18 and 19, 1983, Regina, Saskatchewan. 1983. (12). p. 53-59. Includes references. (NAL Call No.: GB578.15.C3).

0285
Wildlife use of no-till and conventionally tilled corn fields.
JSWCA3. Warburton, D.B. Klimstra, W.D. Ankeny, Iowa : Soil Conservation Society of America. Journal of soil and water conservation. Sept/Oct 1984. v. 39 (5). p. 327-330. maps. Includes 30 references. (NAL Call No.: DNAL 56.8 J822).

0286
Will in-row tillage boost no-till yields? (Subsoilers).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Aug 1984. v. 13 (8). p. 7. ill. (NAL Call No.: S604.N6).

0287
Winter legumes as a nitrogen source for no-tillage cotton (Crimson clover, common vetch, Southern Coastal Plains, USA).
Touchton, J.T. Rickerl, D.H.; Walker, R.H.; Snipes, C.E. Amsterdam : Elsevier. Soil & tillage research. July 1984. v. 4 (4). p. 391-401. Includes 28 references. (NAL Call No.: S590.S48).

0288
With no-till, he drops fertilizer below the seeds (Modified drill operator, wheat production equipment, Oregon).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. July 1984. v. 13 (7). p. 8. ill. (NAL Call No.: S604.N6).

0289
With no-tillage, hit weeds early! (Early preplant application of herbicides, maize, soybeans, Iowa).
Waukesha, Wis. : No-Till Farmer, Inc. No-till farmer. Apr 1984. Apr 1984. p. 12. ill. (NAL Call No.: S604.N6).

0290
Yield comparisons between continuous no-till and tillage rotations.
Dickey, E.C. Peterson, T.R.; Gilley, J.R.; Mielke, L.N. St. Joseph, Mich. : The Society. Paper - American Society of Agricultural Engineers (Microfiche collection). 1982. Paper presented at the 1982 Winter Meeting of the American Society of Agricultural Engineers. Available for purchase from: The American Society of Agricultural Engineers, Order Dept., 2950 Niles Road, St. Joseph, Michigan 49085. Telephone the Order Dept. at (616) 429-0300 for information and prices. 1982. (fiche no. 82-1509). 1 microfiche : ill. Includes references. (NAL Call No.: FICHE S-72).

0291
Yield comparisons between continuous no-till and tillage rotations (in both irrigated and non-irrigated conditions on a silty clay loam soil).
Dickey, E.C. Peterson, T.R.; Gilley, J.R.; Mielke, L.N. St. Joseph, Mich. : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Nov/Dec 1983. v. 26 (6). p. 1682-1686. Includes references. (NAL Call No.: 290.9 AM32T).

0292
1984 costs of alternative tillage systems, central Whitman County, Washington.
WUEXA. Hoag, D. Hinman, H.; Hoffmann, T. Pullman, Wash. : The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Includes statistical data. Sept 1984. (0850,rev.). 17 p. maps. (NAL Call No.: DNAL 275.29 W27P).

0293
1984 costs of alternative tillage systems in the winter wheat-dry pea area of the Palouse region of Washington and Idaho.
WUEXA. Hoag, D. Hinman, H.; Erickson, D. Pullman, Wash. : The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Includes statistical data. July 1984. (0943,rev.). 19 p. maps. (NAL Call No.: DNAL 275.29 W27P).

0294
1984 costs of alternative tillage systems, western Whitman County, Washington.
WUEXA. Hoag, D. Hinman, H.; Hoffmann, T. Pullman, Wash. : The Service. Extension Bulletin - Washington State University, Cooperative Extension Service. Includes statistical data. Sept 1984. (0840,rev.). 14 p. maps. (NAL Call No.: DNAL 275.29 W27P).

Adams, F. 150
Adelman, K. 220
AGBOB. 31
AGENA. 28
AGJOAT. 50, 52, 55, 77, 97, 131, 156, 162, 197, 214, 226, 283
AGREA. 171, 188, 266
Ahmad, S. Salahuddin. 112
Akobundu, I.O. 2, 217, 278, 279, 280
Al-Darby, A.M. 28, 80
Allen, M. 209
Allmaras, R.R. 46
Amerman, C.R. 255, 274
Andam, C.J. 268
Anderson, R.L. 18, 120, 122
Andraski, B. 74
Andraski, B.J. 73
Angle, J.S. 186
Anibal, M.E. 201
Arnold, B.L. 123
Arnold, W.E. 19
Ashley, R.A. 221
Ayeni, A.O. 278, 279, 280
Babowicz, R.J. 103
Badger, D.D. 66
Badillo-Feliciano, J. 81
Bagley, P. 209
Baird, S.M. 157
Baker, C.J. 246
Baker, J.L. 146
Baldridge, D.E. 118
Baliyan, R.S. 254
Bandel, V.A. 162
Barnes, H. 145
Bartek, L.A. 202
Bauder, J. W. 7
Bauder, J.W. 71, 210, 264
Beasley, D.B. 240
Beaulieu, Y. 72
Beck, D.L. 48
Bellin, F. 25
Bellinder, R.R. 23, 121
Benjamin, J.G. 237
Bennett, O.L. 13
Benyamini, Y. 261
Berg, W.A. 119
Bernard, E.C. 157
Berry, E.C. 223
Bhan, V.M. 254
Bierlein, D.L. 49
Bitzer, M.J. 167
Black, A. 171
Black, J.R. 64, 65
Blevins, R.L. 4, 143, 244
Boethel, D.J. 140, 209
Boquet, D.J. 209
Borrelli, J. 20
Bowren, K.E. 17, 284
Broder, M.W. 99
Brooks, R.O. 225
Brust, G.E. 196
Bucher, D.H. 222
Burkhardt, T.H. 64, 65
Burnside, O.C. 156, 275
Burton, R.L. 211
Byers, R.A. 49
CAEOA. 54
Callueng, M. 268
Campbell, G.S. 136
Campbell, R.B. 34, 35
Campbell, W.V. 52, 97
Cannell, R.Q. 154, 207
Cary, P.R. 241
CFECA. 72
Chamblee, D.S. 52, 97
Chaudhary, A.D. 194
Chichester, F.W. 148
Choi, C.H. 219
Choi, C.H. 237
Choudhary, M.A. 195
Christensen, Lee A. 24
Christenson, D. 64, 65
CJSSAR. 17
Cochran, V.L. 214
Colacicco, D. 265
Colvin, D.L. 281
Colvin, T. 142
Colvin, T.S. 55, 175, 233
Colwell, H.T.M. 72
Comis, D.L. 86, 163, 259
Cook, K. 41
Cook, R.J. 135
Coughlan, K.J. 82
Crawford, S.A. 209
Crossley, D.A. Jr. 161, 185
Crosson, D.F.J. 30
CRSOA. 21, 27, 158, 169, 236, 262
Cruse, R.M. 22, 237
CSOSA2. 13, 212
Cullum, R.F. 31
Culp, T.W. 95
Dabney, S.M. 209
Daniel, T.C. 73, 74, 155, 191, 234, 242
DeBoer, D.W. 48
Decker, A.M. 102
DeGregorio, R.E. 221
Dick, W.A. 50
Dickens, D. 271
Dickey, E.C. 32, 139, 200, 236, 290, 291
Doran, J.W. 3, 78, 99
Doster, D.H. 87
Dowding, E.A. 108
Dowdy, R.H. 46
Downs, H.W. 90, 152
Downs, W. 267
Duke, W.B. 278, 279, 280
Dyke, P.T. 89
Eason, J.T. 137
Eckert, D.J. 105, 263
Edwards, J.H. 137
Edwards, W.M. 255, 274
Ehmke, V. 256
Eisenhauer, D.E. 139, 236
Ekin, L.G. 106
Elamin, M.A. 237
Eleveld, B. 134
Elkins, C.B. 258
Eltun, R. 77
Enabor, E.E. 67
Epplin, F.M. 57
Erbach, D. 142
Erbach, D.C. 22, 219, 237
Erickson, D. 293
Erickson, H. 142
Evangelou, V.P. 244
Fain, D. 90
Fenster, C.R. 99
Fischbach, P.E. 139
Fornstrom, K.J. 20
Foster, J.G. 13
Foster, M.A. 138
Frank, K.D. 139
FRHQA. 43
Frisbie, R.E. 187
Frye, W.W. 143, 212
Funderburk, J.E. 223
Gadsby, D. 265
Gardner, H. 107
Garman, C.F. 8
Gerik, T.J. 9, 89, 148, 202, 283
Gerling, J.F. 6, 90, 152
Ghadiri, H. 11
Ghate, S.R. 149
Ghuman, B.S. 272
Giddens, J. 213
Gilley, J.R. 290, 291

Glica, A. 151
Goe, W.R. 96
Gold, A.J. 144
Gore, A. 96
Grable, A.R. 251
Grant, C.A. 76
Greer, J.D. 205, 206, 239
Griffin, J.L. 209
Griffith, D.R. 44, 53, 87
Groffman, P.M. 159
Grove, J.H. 212
Gupta, S.C. 197
Gutknecht, K.W. 36
Haasch, D.A. 117
Haderlie, L.C. 11
Hale, K. 165
Hallauer, A.R. 55
Hallmark, W.B. 209
Halvorson, A.D. 203
Hanson, D. 25
Hardcastle, W.S. 42
Harder, R.W. 108
Hargrove, W.L. 10, 42, 213, 218
Hargrove, William L. 199
Hart, C.G. 270
Hartman, G.P. 203
Hartzog, D. 150
Harvey R.G. 124
Hawley, K.N. 108
Heimo, M. 232
Heisler, M.G. 56
Herbek, J.H. 143, 176
Hergert, G. 33
Herman, M. 147
Hermanson, R.E. 180, 257
Herron, J.W. 172
Hines, T.E. 23, 121
Hinman, H. 292, 293, 294
HJHSA. 172
Hoag, D. 292, 293, 294
Hoffmann, T. 292, 294
Holm, K.E. 29
Hoogmoed, W.B. 261
House, G.J. 161
Huffman, W.E. 1
Huntington, T.G. 212
Hurst, H.R. 123
Hutching, G. 132
Hutchinson, R.L. 209
Hyde, G.M. 103, 180, 182, 257
IJAGA. 254
Iqbal, Muhammad Zafar,_1935-. 112
Jain, M.L. 93
Jasa, P.J. 236
JAUPA. 81
JEENAI. 49, 140, 192, 211
Jensen, T.C. 133
Johnson, C.E. 258
Johnson, J.R. 123
Johnson, M.D. 155, 242
Johnson, P.D. 19
Johnson, R.G. 70
Johnson, R.J. 29
Johnston, M.A. 79
JONEB. 157
Jones, J.H. 204
Joubert, B. 40
JSWCA3. 41, 42, 57, 238, 240, 265, 285
Jung, G.A. 151
Kapusta, G. 51, 63
Karamanos, R.E. 17
Karlen, D.L. 34, 35, 131
Karow, R. 271
Kelly, P.L. 249
King, A.D. 47
Kissler, R.K. 85
Kladivko, E.J. 44
Klepper, B.L. 117
Klimstra, W.D. 285
Klocke, N.L. 43
Knake, E.L. 187
Knavel, D.E. 172
Knipscheer, H.C. 67
Koch, D.W. 230, 231
Kocher, R.E. 151
Koehler, A.E. 29
Kogan, M. 134
Kolstad, O.C. 216
Kos, M. 215
Kraft, S.E. 238
Krenzer, E.G. Jr. 211
Kuhlman, D. 134
Kushwaha, R.L. 91, 190
Laflen, J.M. 146, 160, 175, 233
Lal, R. 126, 245, 272
Langdale, G.W. 161, 213, 218
Lavake, D.E. 125
LAXBA. 209
Lee, J.G. 240
Legg, J.O. 162
Leroux, G.D. 124
Lessiter, F. 12, 183, 184, 260
Lessiter, Frank. 101
Leuthold, F.O. 270
Lewis, C.E. 31
Lewis, L.C. 192
Lim, S.M. 134
Lindwall, C.W. 68
Link, L.A. 94
Linn, D.M. 3, 78
Lo Giudice, V. 198
Loch, R.J. 82
Logsdon, G. 88
Long, J.D. 222
Loudon, T. 144
Lovejoy, S.B. 240
Lowery, B. 28, 73, 74, 80, 155, 242
Ludington, D.C. 56
Lugo-Mercado, H.M. 81
MacLean, J.T. 37, 38, 153
MAEBB. 123
Maeder, M. 15, 145
Magleby, R. 193, 265
Mallett, J.B. 79
Mallik, R.K. 254
Mannering, J.V. 44, 53
Marley, S. 142
Marley, S.J. 175
Marshall, J.G. 209
Martin, A.R. 276
Mays, G.C. 110
McCartney, D.A. 196, 248
McClung, G. 186
McDowell, L.L. 239
McGregor, K.C. 16
McIntosh, M.S. 186
McKyes, E. 54
McWhorter, C.G. 116
Meisinger, J.J. 162
Michalson, E.L. 225
Michel, J.A. Jr. 20
Mickelson, S.K. 146
Mielke, L.N. 243, 290, 291
Miguel, V.I. 268
Miller, S.D. 226
Mitchell, J.R. 230, 231
Mitchell, W. H. 179
Mohamed, M.G. 182
Moomaw, R.S. 156
Moore, J.M. 173
Moore, K.J. 135
Morin, J. 261
Morris, J. 25
Morrison, J.E. Jr. 9, 89, 148, 202, 283
Morrow, L.A. 214
Morse, R. 60

Morse, R.D. 83
Morton, J.B. 13
Muck, R.E. 56
Mueller-Warrant, G.W. 230, 231
Mueller, D.H. 73, 74, 191, 234
Mueller, J.P. 52, 97
Muhtar, H.A. 64, 65
Mukhtar, S. 237
Mullins, C.A. 174
Murphy, L. 104
Mutchler, C.K. 16, 205, 206, 239
MXMRA. 25, 45, 249
Nalewaja, J.D. 226
Napier, T.L. 96
Narayanan, A.V.S. 72
Navasero, N.C. 8
Negi, S.C. 54
Ngambeki, D.S. 8
NHABA. 230, 231
Nibler, F. 107
Nurnburger, F.V. 144
Nuttall, M. 62, 253
NZJAA. 132
OASPA. 106, 271
Odum, E.P. 161, 185
Olsen, F.J. 204
ORRDA. 196
Ortiz-Alvarado, F.H. 81
Osuji, G.E. 273
Overgaard, N. A. 92
Parsons, S.D. 53, 87
Patterson, M. 281
PEAFA. 15
Pedigo, L.P. 192, 223
Pellerin, R.A. 56
Peterson, C.L. 108
Peterson, G.A. 99
Peterson, T.R. 32, 236, 290, 291
Phatak, S.C. 149
Pierce, R. 266
PNWSB. 121, 221
Postal, J.J. 133
Powell, M.L. 225
Racz, G.J. 76
Rafique, Shahid. 112
Raghavan, G.S.V. 54
RAGJA. 208
Rahm, M.R. 1
Ramig, R.E. 106
Randall, G.W. 45, 216, 249
Ranney, J. 118
Rasmussen, P.E. 117
Rawitz, E. 261
Ray, B. 26
Rehm, G. 25
Reichelderfer, K. 187
Reinertsen, M.R. 214
Rennie, D.A. 232
Rice, C.W. 235
Rice, Robert W. 115
Richards, K.A. 243
Rickerl, D.H. 287
Roach, S.H. 95
Robinson, K.L. 100
Rogers, D.D. 52, 97
Roskamp, G. 63
Rubink, W.L. 248
Ruesink, W.G. 138
Salem, M.A. 66
Saunders, J.L. 269
Savage, S. 40
Saxton, K.E. 136
Schafer, R.L. 258
Schuler, R.T. 210, 216
Schwien, J.D. 251
Selles, F. 17
Seward, D. 60
Sharma, D.N. 93
Sharma, S. 93
Shea, P.J. 11
Shelton, D.P. 32
Shenk, M. 269
Sherman, H. 188
Shukla, L.N. 61
Shumba, E.M. 208
Siddoway, F.H. 31
Simpson, J.B. 103, 182, 257
Sims, P.L. 119
Smika, D.E. 18, 122
Smith, J.A. 43
Smith, M.S. 235
Snipes, C.E. 287
Sojka, R.E. 34, 35, 131
Solie, J. 152
Solie, J.B. 6
Somody, C.N. 226
Sorlie, D.T. 222
Srivastava, A.K. 201
SSSJD4. 78, 159, 244
Stanford, G. 162
Steichen, J. 109
Stiegler, J. 152
Stiles, W.C. 5
Stinner, B.R. 161, 185, 196, 248
Stobbe, E.H. 76
Stougaard, R.N. 63
Stovgaard, R.V. 51
Sullivan, W.M. 77
Suskevic, M. 215
Swan, J.B. 45
Swenson, A.L. 70
TAAEA. 205, 242
Tabatabai, M.A. 160
TAEMA. 125
Tandon, S.K. 61
Taylor, F. 54
TFHSA. 270
Thigpen, J. 265
Thomas, A.W. 218
Thomas, G.W. 84
Thomas, P.M. 186
Thompson, D. 113
Thompson, S. 113
Thorvilson, H.G. 192
Thraen, C.S. 96
Thurlow, D.L. 137
Tice, T.F. 57
TISAA. 204
Todd, R.L. 185
Tollner, E.W. 10
Toohill, T.L. 238
Touchton, J.T. 287
Troxclair, N.N. Jr. 140
UTSCB. 36
Vaishnav, A.S. 91, 190
Van Doren, D.M. Jr. 50
Van Dyke, W. 165
Verinumbe, I. 67
Verma, S.R. 61
Vigier, B. 54
Wakefield, R.C. 77
Walker, J.G. 75
Walker, L.P. 56
Walker, R.H. 281, 287
Walters, D.T. 45, 249
Warburton, D.B. 285
Watson, A.K. 54
Wax, L. 134
WEESA6. 116, 124, 281
Wehtje, G.R. 281
Wendt, R.C. 191, 234
Wentzel, R. 100
WEREAT. 280
White, G.M. 172
White, H.E. 164
Wicks, G.A. 11, 276

Wiese, A.F. 125
Wiese, R. 33
Wilhelm, W.W. 243
Wilkins, D.E. 117
Willis, W.O. 251
Wilson, H.P. 23, 121, 277
Wolf, D.C. 186
Wolf, D.D. 164
Wrage, L.J. 19
Wright, S.F. 13
WSWPA. 2
WUEXA. 180, 292, 293, 294
XAAIA. 47
Zavaleta, L.R. 134
Zentner, R.D. 72
Zentner, R.P. 68
Zoerb, G.C. 91, 190

U.S. Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

OFFICIAL BUSINESS
Penalty for Private Use, $300

Postage and Fees Paid
United States
Department of Agriculture
AGR-101